



Saber 3°, 5° y 9° 2013

Cuadernillo de prueba

EJEMPLO DE PREGUNTAS
Saber 3° Matemáticas

Presidente de la República
Juan Manuel Santos Calderón

Ministra de Educación Nacional
Gina María Parody d'Echeona

Viceministro de Educación Preescolar, Básica y Media
Luis Enrique García De Brigard

Directora General
Ximena Dueñas Herrera

Secretaria General
María Sofía Arango Arango

Director de Evaluación
Andrés Gutiérrez

Director de Producción y Operaciones
Francia del Pilar Jiménez

Directora de Tecnología
Ingrid Picón Carrascal

Jefe Oficina Asesora de Comunicaciones y Mercadeo
Jimmy Alexander Lugo Guerrero

Jefe Oficina Gestión de Proyectos de Investigación
Luis Eduardo Jaramillo

Subdirectora de Producción de Instrumentos
Martha Ligia Cuevas Mendoza

Subdirector de Diseño de Instrumentos
Diego Fernando Lemus Polanía

Subdirectora de Análisis y Divulgación
Silvana Godoy Mateus

Adaptación y elaboración del documento
Martha Jeanet Castillo Ballén

Diseño y diagramación
Gustavo Andrés Álvarez Mejía

ISBN de la versión digital: En trámite

Bogotá D.C., mayo de 2016



ADVERTENCIA

Con el fin de evitar la sobrecarga gráfica que supondría utilizar en español “o/a” para denotar uno u otro género, el ICFES opta por emplear el masculino genérico en el que todas las menciones de este se refieren siempre a hombres y mujeres.

Todo el contenido es propiedad exclusiva y reservada del ICFES y es el resultado de investigaciones y obras protegidas por la legislación nacional e internacional. No se autoriza su reproducción, utilización ni explotación a ningún tercero. Solo se autoriza su uso para fines exclusivamente académicos. Esta información no podrá ser alterada, modificada o enmendada.

TÉRMINOS Y CONDICIONES DE USO PARA PUBLICACIONES Y OBRAS DE PROPIEDAD DEL ICFES

El Instituto Colombiano para la Evaluación de la Educación (ICFES) pone a la disposición de la comunidad educativa y del público en general, **DE FORMA GRATUITA Y LIBRE DE CUALQUIER CARGO**, un conjunto de publicaciones a través de su portal www.icfes.gov.co. Dichos materiales y documentos están normados por la presente política y están protegidos por derechos de propiedad intelectual y derechos de autor a favor del ICFES. Si tiene conocimiento de alguna utilización contraria a lo establecido en estas condiciones de uso, por favor infórmenos al correo prensaicfes@icfes.gov.co.

Queda prohibido el uso o publicación total o parcial de este material con fines de lucro. **Únicamente está autorizado su uso para fines académicos e investigativos**. Ninguna persona, natural o jurídica, nacional o internacional, podrá vender, distribuir, alquilar, reproducir, transformar (*), promocionar o realizar acción alguna de la cual se lucre directamente o indirectamente con este material. Esta publicación cuenta con el registro ISBN (International Standard Book Number, o Número Normalizado Internacional para Libros) que facilita la identificación no sólo de cada título, sino de la autoría, la edición, el editor y el país en donde se edita.

En todo caso, cuando se haga uso parcial o total de los contenidos de esta publicación del ICFES, el usuario deberá consignar o hacer referencia a los créditos institucionales del ICFES respetando los derechos de cita; es decir, se podrán utilizar con los fines aquí previstos transcribiendo los pasajes necesarios, citando siempre la fuente de autor) lo anterior siempre que estos no sean tantos y seguidos que razonadamente puedan considerarse como una reproducción simulada y sustancial, que redunde en perjuicio del ICFES.

Asimismo, los logotipos institucionales son marcas registradas y de propiedad exclusiva del Instituto Colombiano para la Evaluación de la Educación (ICFES). Por tanto, los terceros no podrán usar las marcas de propiedad del ICFES con signos idénticos o similares respecto de cualesquiera productos o servicios prestados por esta entidad, cuando su uso pueda causar confusión. En todo caso queda prohibido su uso sin previa autorización expresa del ICFES. La infracción de estos derechos se perseguirá civil y, en su caso, penalmente, de acuerdo con las leyes nacionales y tratados internacionales aplicables.

El ICFES realizará cambios o revisiones periódicas a los presentes términos de uso, y los actualizará en esta publicación.

El ICFES adelantará las acciones legales pertinentes por cualquier violación a estas políticas y condiciones de uso.

* La transformación es la modificación de la obra a través de la creación de adaptaciones, traducciones, compilaciones, actualizaciones, revisiones, y, en general, cualquier modificación que de la obra se pueda realizar, generando que la nueva obra resultante se constituya en una obra derivada protegida por el derecho de autor, con la única diferencia respecto de las obras originales que aquellas requieren para su realización de la autorización expresa del autor o propietario para adaptar, traducir, compilar, etcétera. En este caso, el ICFES prohíbe la transformación de esta publicación.

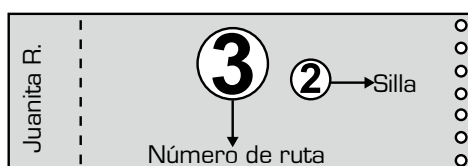


SABER 3

SABER 3 - PRUEBA DE MATEMÁTICAS

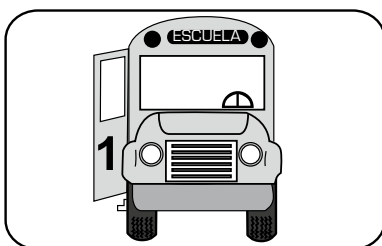
• Pregunta 1.

Observa el tiquete de bus escolar de Juanita:

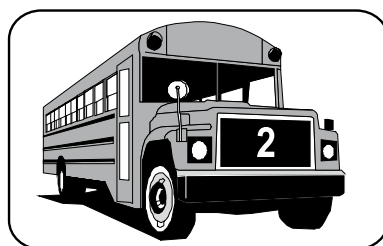


¿Cuál ruta debe tomar?

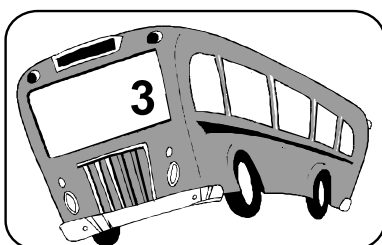
A.



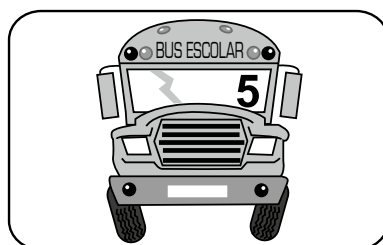
B.



C.



D.



• Estructura

Competencia	Comunicación
Componente	Numérico - variacional
Afirmación	Reconocer el uso de números naturales en diferentes contextos.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	C

• Resultados a nivel nacional y de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	16.0%	19.9%	39.6%	21.7%	2.9%	733
Antioquia	14.1%	15.0%	50.0%	17.6%	3.3%	22710
Apartadó	17.9%	17.2%	46.5%	16.4%	2.0%	1328
Arauca	13.0%	14.3%	53.0%	17.8%	1.9%	2080
Armenia	10.9%	9.8%	67.5%	9.9%	1.9%	1862
Atlántico	13.6%	16.9%	50.0%	16.5%	3.1%	4345
Barrancabermeja	9.6%	12.6%	66.4%	10.1%	1.2%	1916
Barranquilla	12.8%	13.0%	60.2%	12.1%	2.0%	8962
Bello	9.7%	11.3%	66.9%	10.5%	1.6%	3019
Bogotá, D.C.	7.0%	8.4%	75.0%	8.3%	1.4%	46463
Bolívar	20.4%	18.9%	36.4%	20.4%	3.8%	8514
Boyacá	14.1%	13.9%	50.6%	19.2%	2.1%	6397
Bucaramanga	9.3%	9.7%	69.4%	10.0%	1.6%	3879
Buenaventura	13.7%	12.1%	56.2%	15.1%	2.9%	3026
Buga	10.4%	9.4%	62.4%	15.6%	2.1%	900
Caldas	13.9%	13.7%	51.6%	18.4%	2.4%	4445
Cali	8.8%	11.2%	67.2%	10.3%	2.5%	14708
Caquetá	13.8%	16.2%	45.9%	21.7%	2.4%	2686
Cartagena	13.3%	12.0%	59.7%	12.0%	3.1%	8260
Cartago	10.1%	9.8%	66.8%	11.3%	2.0%	879
Casanare	13.8%	13.2%	52.6%	18.8%	1.6%	2277
Cauca	12.0%	12.3%	52.0%	19.1%	4.5%	9876
Cesar	18.7%	17.3%	44.3%	17.3%	2.4%	6702
Chocó	18.8%	17.1%	39.1%	20.6%	4.5%	3512
Chía	5.0%	10.0%	78.1%	6.4%	0.5%	840
Ciénaga	17.9%	15.1%	47.6%	16.5%	2.9%	1092
Cundinamarca	9.2%	10.3%	65.5%	13.0%	2.0%	11716
Córdoba	18.5%	18.6%	39.9%	20.5%	2.4%	10476
Cúcuta	13.3%	15.8%	55.0%	15.0%	0.8%	5703
Dosquebradas	9.2%	10.8%	68.4%	9.6%	1.9%	1286
Duitama	6.9%	7.4%	74.6%	10.1%	1.1%	855
Envigado	7.2%	7.8%	77.3%	6.4%	1.3%	1027
Facatativá	9.2%	9.0%	71.9%	8.9%	1.0%	1023
Florencia	16.1%	14.3%	51.8%	16.9%	0.9%	1537
Floridablanca	8.1%	8.4%	74.4%	8.4%	0.7%	1949
Fusagasugá	9.3%	11.6%	66.6%	11.5%	1.1%	1011
Girardot	12.4%	16.4%	56.2%	14.0%	1.0%	708
Girón	12.4%	13.3%	56.4%	16.0%	1.9%	1067

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Guainía	15.6%	18.1%	37.8%	23.5%	5.0%	442
Guaviare	17.2%	15.1%	43.5%	22.5%	1.8%	757
Huila	12.1%	14.1%	52.1%	20.4%	1.3%	6157
Ibagué	7.8%	10.2%	68.6%	11.9%	1.4%	3950
Ipiales	10.5%	11.3%	60.1%	16.9%	1.3%	985
Itagüí	8.5%	12.0%	67.0%	10.7%	1.7%	1416
Jamundí	10.1%	15.9%	57.0%	15.4%	1.6%	933
La Guajira	17.7%	17.4%	42.5%	18.2%	4.2%	3214
Lorica	19.7%	17.1%	40.6%	19.9%	2.8%	1078
Magangué	20.0%	17.7%	38.7%	19.7%	3.9%	1202
Magdalena	18.8%	17.3%	41.8%	18.1%	4.0%	7253
Maicao	19.0%	19.3%	39.3%	20.0%	2.3%	1796
Malambo	12.1%	12.9%	57.5%	14.8%	2.6%	989
Manizales	9.4%	12.0%	66.2%	10.9%	1.5%	2286
Medellín	10.4%	12.5%	64.4%	10.8%	2.0%	14976
Meta	14.2%	15.6%	49.8%	18.0%	2.4%	4172
Montería	17.5%	17.3%	44.9%	18.7%	1.6%	3969
Mosquera	6.3%	10.6%	72.3%	9.2%	1.5%	839
Nariño	11.5%	13.6%	54.3%	18.5%	2.1%	7529
Neiva	12.6%	12.9%	59.0%	14.5%	1.0%	2771
Norte de Santander	13.7%	15.8%	51.2%	17.9%	1.4%	6054
Palmira	9.6%	12.3%	64.9%	11.5%	1.7%	2203
Pasto	8.6%	10.0%	67.2%	13.2%	1.1%	3215
Pereira	9.3%	9.6%	68.4%	10.9%	1.7%	3082
Piedecuesta	11.2%	11.3%	66.3%	10.6%	0.5%	1129
Pitalito	10.9%	15.0%	55.1%	18.1%	0.9%	1238
Popayán	9.5%	9.0%	66.4%	13.3%	1.9%	2066
Putumayo	14.0%	15.1%	49.3%	18.9%	2.8%	3016
Quibdó	14.7%	15.0%	52.9%	15.1%	2.3%	1228
Quindío	13.4%	14.8%	56.2%	13.7%	1.9%	1758
Riohacha	16.4%	17.1%	47.8%	16.3%	2.3%	2233
Rionegro	10.2%	13.7%	62.3%	13.2%	0.6%	826
Risaralda	13.1%	13.1%	53.5%	18.8%	1.5%	2150
Sabaneta	7.7%	10.4%	65.6%	9.1%	7.2%	375
Sahagún	16.9%	19.7%	43.2%	19.8%	0.4%	995
San Andrés	20.7%	12.3%	42.3%	21.8%	2.9%	381
Santa Marta	15.1%	16.2%	52.9%	13.4%	2.4%	4034
Santander	11.2%	13.7%	56.0%	17.9%	1.2%	6390
Sincelejo	14.6%	16.5%	53.0%	14.2%	1.7%	2280

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Soacha	8.0%	9.5%	71.5%	9.8%	1.2%	3891
Sogamoso	8.2%	8.8%	72.6%	8.4%	2.0%	1104
Soledad	10.9%	11.8%	64.6%	11.4%	1.2%	4112
Sucre	19.3%	19.9%	38.0%	20.3%	2.4%	6218
Tolima	13.1%	13.9%	52.7%	18.1%	2.2%	7811
Tuluá	10.1%	13.1%	63.8%	11.9%	1.1%	1698
Tumaco	18.1%	18.2%	39.1%	19.0%	5.6%	2161
Tunja	7.6%	8.9%	72.3%	10.8%	0.4%	1245
Turbo	22.4%	20.3%	32.0%	20.9%	4.3%	1580
Uribe	19.9%	19.1%	32.5%	24.6%	3.9%	1506
Valle del Cauca	12.5%	15.3%	54.2%	15.8%	2.2%	7121
Valledupar	13.2%	13.3%	53.9%	14.8%	4.8%	3871
Vaupés	16.1%	23.0%	27.6%	28.1%	5.1%	217
Vichada	13.1%	17.3%	49.5%	18.7%	1.4%	289
Villavicencio	9.8%	11.4%	66.2%	11.3%	1.3%	4134
Yopal	9.9%	9.2%	67.0%	12.5%	1.4%	1333
Zipaquirá	9.7%	8.3%	71.9%	9.5%	0.6%	930
Colombia	12.4%	13.3%	57.5%	14.6%	2.2%	370357

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.



• Pregunta 2.

Francisco pagó un helado con una moneda de \$500 y otra de \$200 y no le sobró dinero.

Si Francisco hubiera pagado con un billete de \$1.000, le habría sobrado

- A. \$100
- B. \$200
- C. \$300
- D. \$500

• Estructura

Competencia	Razonamiento
Componente	Numérico - variacional
Afirmación	Generar equivalencias entre expresiones numéricas.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	C

• Resultados a nivel nacional y de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Amazonas	10.8%	10.9%	47.2%	29.3%	1.8%	733
Antioquia	6.5%	9.0%	62.0%	19.2%	3.3%	22710
Apartadó	6.5%	10.3%	58.8%	21.8%	2.6%	1328
Arauca	5.7%	8.0%	66.9%	17.5%	1.9%	2080
Armenia	5.9%	9.2%	63.1%	20.0%	1.8%	1862
Atlántico	6.6%	9.2%	59.4%	21.3%	3.6%	4345
Barrancabermeja	5.4%	9.4%	66.2%	17.7%	1.2%	1916
Barranquilla	5.5%	9.1%	64.4%	18.7%	2.2%	8962
Bello	5.1%	8.6%	68.6%	15.8%	1.9%	3019
Bogotá, D.C.	4.7%	9.3%	68.3%	16.2%	1.5%	46463
Bolívar	9.1%	12.6%	49.2%	25.0%	4.1%	8514
Boyacá	6.1%	8.5%	63.8%	19.4%	2.2%	6397
Bucaramanga	4.1%	7.5%	73.5%	13.3%	1.6%	3879
Buenaventura	6.5%	7.8%	64.2%	18.3%	3.1%	3026
Buga	4.8%	8.1%	66.3%	18.2%	2.6%	900

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Caldas	5.4%	7.2%	66.8%	18.0%	2.6%	4445
Cali	5.4%	8.7%	66.2%	17.1%	2.6%	14708
Caquetá	7.9%	9.2%	57.8%	22.5%	2.5%	2686
Cartagena	7.1%	9.2%	62.1%	18.5%	3.0%	8260
Cartago	5.6%	11.0%	62.9%	18.3%	2.2%	879
Casanare	6.3%	8.5%	63.9%	19.7%	1.6%	2277
Cauca	5.8%	7.7%	62.2%	19.6%	4.7%	9876
Cesar	7.2%	9.9%	58.6%	21.5%	2.8%	6702
Chocó	8.6%	11.6%	52.7%	22.3%	4.8%	3512
Chía	4.4%	9.9%	68.8%	16.5%	0.4%	840
Ciénaga	10.1%	10.5%	57.9%	18.8%	2.7%	1092
Cundinamarca	4.7%	8.6%	67.5%	17.2%	2.0%	11716
Córdoba	8.4%	10.8%	54.8%	23.2%	2.8%	10476
Cúcuta	5.0%	7.6%	69.0%	17.6%	0.8%	5703
Dosquebradas	4.2%	8.6%	68.5%	17.0%	1.7%	1286
Duitama	2.7%	7.4%	76.0%	13.2%	0.7%	855
Envigado	4.2%	9.8%	70.7%	13.8%	1.5%	1027
Facatativá	4.0%	7.5%	71.0%	16.6%	0.9%	1023
Florencia	6.7%	10.6%	61.7%	19.6%	1.4%	1537
Floridablanca	3.8%	8.0%	74.7%	13.1%	0.4%	1949
Fusagasugá	5.5%	7.4%	67.8%	17.8%	1.5%	1011
Girardot	7.1%	9.6%	61.2%	20.8%	1.4%	708
Girón	5.7%	8.5%	67.4%	16.1%	2.2%	1067
Guainía	7.7%	8.6%	47.3%	30.8%	5.7%	442
Guaviare	11.2%	9.4%	52.2%	23.9%	3.3%	757
Huila	6.0%	8.0%	63.6%	21.0%	1.4%	6157
Ibagué	4.4%	7.1%	72.1%	14.8%	1.5%	3950
Ipiales	3.4%	6.1%	72.5%	17.1%	1.0%	985
Itagüí	5.5%	10.0%	68.7%	14.3%	1.5%	1416
Jamundí	4.8%	8.6%	63.8%	21.4%	1.4%	933
La Guajira	8.2%	13.1%	50.8%	23.4%	4.5%	3214
Lorica	8.5%	10.9%	52.6%	25.2%	2.7%	1078
Magangué	8.7%	10.6%	48.7%	28.0%	4.0%	1202
Magdalena	8.4%	10.4%	56.2%	21.0%	4.0%	7253
Maicao	7.8%	10.7%	55.8%	23.9%	1.8%	1796
Malambo	5.4%	7.5%	66.3%	18.3%	2.5%	989
Manizales	4.4%	7.3%	69.4%	17.5%	1.4%	2286
Medellín	5.7%	9.1%	64.8%	18.2%	2.1%	14976
Meta	5.2%	9.0%	63.0%	20.2%	2.6%	4172
Montería	7.5%	10.4%	58.6%	22.1%	1.4%	3969
Mosquera	4.6%	9.5%	68.1%	16.6%	1.2%	839

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Nariño	5.8%	6.5%	68.1%	17.2%	2.4%	7529
Neiva	4.9%	9.2%	65.5%	19.1%	1.3%	2771
Norte de Santander	5.9%	7.7%	66.9%	17.8%	1.7%	6054
Palmira	3.9%	7.9%	71.0%	15.3%	1.8%	2203
Pasto	4.0%	7.2%	71.8%	15.9%	1.2%	3215
Pereira	4.5%	7.4%	69.1%	16.9%	2.1%	3082
Piedecuesta	5.4%	8.3%	71.1%	14.4%	0.7%	1129
Pitalito	6.5%	6.9%	64.8%	20.7%	1.2%	1238
Popayán	3.7%	6.5%	73.7%	14.1%	2.0%	2066
Putumayo	6.3%	8.1%	61.2%	21.2%	3.1%	3016
Quibdó	5.1%	8.3%	69.6%	15.1%	1.9%	1228
Quindío	6.0%	9.7%	61.2%	20.6%	2.4%	1758
Riohacha	7.3%	10.0%	58.6%	21.5%	2.5%	2233
Rionegro	5.0%	9.1%	69.2%	16.2%	0.5%	826
Risaralda	5.4%	6.9%	65.3%	20.6%	1.8%	2150
Sabaneta	2.7%	11.2%	64.8%	14.4%	6.9%	375
Sahagún	6.6%	11.3%	58.5%	23.0%	0.6%	995
San Andrés	14.2%	17.8%	40.4%	23.9%	3.7%	381
Santa Marta	7.1%	9.7%	62.7%	18.0%	2.5%	4034
Santander	6.2%	8.2%	66.8%	17.4%	1.4%	6390
Sincelejo	5.5%	10.0%	60.2%	22.4%	1.9%	2280
Soacha	4.3%	8.6%	70.1%	15.7%	1.2%	3891
Sogamoso	3.9%	8.1%	72.6%	13.3%	2.2%	1104
Soledad	4.3%	7.7%	69.1%	17.4%	1.5%	4112
Sucre	9.0%	11.9%	52.1%	24.5%	2.6%	6218
Tolima	6.5%	8.9%	62.8%	19.7%	2.2%	7811
Tuluá	4.4%	7.8%	68.6%	18.0%	1.2%	1698
Tumaco	7.9%	13.1%	52.0%	20.5%	6.6%	2161
Tunja	4.0%	8.5%	73.6%	13.3%	0.6%	1245
Turbo	10.1%	12.0%	45.8%	27.4%	4.8%	1580
Uribe	12.7%	15.8%	43.4%	23.2%	4.8%	1506
Valle del Cauca	5.6%	8.2%	64.9%	19.0%	2.2%	7121
Valledupar	5.0%	7.2%	63.8%	18.9%	5.1%	3871
Vaupés	13.4%	12.9%	35.5%	32.3%	6.0%	217
Vichada	5.2%	12.8%	54.7%	25.6%	1.7%	289
Villavicencio	3.7%	6.9%	73.5%	14.5%	1.3%	4134
Yopal	5.6%	6.7%	70.7%	15.7%	1.4%	1333
Zipaquirá	3.3%	8.5%	70.8%	16.7%	0.8%	930
Colombia	6.0%	9.0%	63.9%	18.8%	2.4%	370357

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• **Pregunta 3.**

Felipe cuenta canicas. Cuando cuenta 1, escribe I y cuando cuenta 5 escribe **IIII**.

Si Felipe contó 11 canicas, ¿cómo lo escribió?

- A. II
- B. **IIII** I
- C. **IIII** **IIII** I
- D. III III III I

• **Estructura**

Competencia	Comunicación
Componente	Numérico - variacional
Afirmación	Reconocer equivalencias entre diferentes tipos de representaciones relacionadas con números.
Nivel de desempeño	C
Respuesta Correcta	Mínimo

• **Resultados a nivel nacional y de Entidad Territorial certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	9.0%	17.2%	55.8%	14.7%	3.3%	733
Antioquia	5.6%	11.4%	68.1%	11.3%	3.6%	22710
Apartadó	6.9%	11.9%	66.5%	11.4%	3.2%	1328
Arauca	6.1%	11.3%	70.3%	10.1%	2.2%	2080
Armenia	4.0%	11.0%	74.0%	8.5%	2.4%	1862
Atlántico	5.2%	14.4%	64.6%	11.9%	3.9%	4345
Barrancabermeja	4.8%	10.4%	72.7%	10.9%	1.2%	1916
Barranquilla	4.4%	11.6%	71.1%	10.6%	2.4%	8962
Bello	4.4%	9.4%	73.7%	10.6%	1.8%	3019
Bogotá, D.C.	2.9%	8.2%	79.3%	8.1%	1.6%	46463
Bolívar	7.5%	15.8%	57.8%	14.6%	4.4%	8514
Boyacá	4.6%	10.6%	69.6%	13.0%	2.2%	6397
Bucaramanga	3.4%	8.1%	78.6%	8.1%	1.9%	3879
Buenaventura	5.1%	10.4%	71.2%	10.1%	3.2%	3026
Buga	4.3%	8.9%	72.0%	11.8%	3.0%	900

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Caldas	5.2%	9.6%	72.0%	10.3%	2.8%	4445
Cali	3.8%	9.8%	74.9%	8.8%	2.7%	14708
Caquetá	6.3%	12.9%	65.2%	12.7%	2.9%	2686
Cartagena	4.6%	12.3%	69.7%	9.9%	3.5%	8260
Cartago	4.2%	8.8%	76.3%	8.2%	2.5%	879
Casanare	5.6%	11.3%	68.0%	13.1%	2.0%	2277
Cauca	5.8%	10.7%	66.8%	12.0%	4.6%	9876
Cesar	6.6%	13.2%	65.3%	12.0%	2.9%	6702
Chocó	8.1%	14.6%	59.1%	13.2%	5.0%	3512
Chía	3.8%	7.4%	81.1%	7.4%	0.4%	840
Ciénaga	5.4%	13.6%	65.8%	11.4%	3.8%	1092
Cundinamarca	4.4%	9.4%	74.3%	9.8%	2.1%	11716
Córdoba	7.1%	13.0%	62.1%	14.8%	3.0%	10476
Cúcuta	4.5%	10.6%	73.7%	10.2%	1.1%	5703
Dosquebradas	4.2%	9.6%	75.2%	8.6%	2.4%	1286
Duitama	2.1%	6.3%	84.2%	6.2%	1.2%	855
Envigado	2.5%	6.0%	82.2%	7.6%	1.7%	1027
Facatativá	3.8%	7.8%	78.4%	8.6%	1.4%	1023
Florencia	7.3%	13.1%	66.6%	12.0%	1.1%	1537
Floridablanca	3.4%	8.0%	80.6%	7.5%	0.6%	1949
Fusagasugá	3.4%	9.9%	74.9%	10.9%	1.0%	1011
Girardot	5.1%	11.0%	70.5%	11.7%	1.7%	708
Girón	3.8%	12.4%	71.1%	10.0%	2.6%	1067
Guainía	5.2%	13.3%	57.2%	18.8%	5.4%	442
Guaviare	7.8%	11.6%	59.7%	17.6%	3.3%	757
Huila	5.0%	11.3%	70.0%	12.4%	1.3%	6157
Ibagué	3.2%	9.5%	77.5%	8.2%	1.6%	3950
Ipiales	5.0%	9.6%	75.3%	8.8%	1.2%	985
Itagüí	4.0%	9.7%	74.6%	10.2%	1.3%	1416
Jamundí	5.3%	9.6%	72.2%	10.8%	2.0%	933
La Guajira	6.5%	14.1%	62.2%	12.5%	4.7%	3214
Lorica	6.7%	14.5%	60.6%	15.4%	2.9%	1078
Magangué	6.5%	15.8%	58.5%	15.1%	4.1%	1202
Magdalena	7.3%	14.1%	62.2%	12.0%	4.4%	7253
Maicao	6.4%	14.8%	62.8%	13.5%	2.6%	1796
Malambo	5.3%	11.1%	69.2%	11.6%	2.8%	989
Manizales	4.0%	9.5%	75.7%	9.2%	1.6%	2286
Medellín	4.4%	9.8%	73.6%	9.8%	2.4%	14976
Meta	5.3%	11.5%	67.9%	12.5%	2.8%	4172
Montería	5.9%	13.8%	65.4%	13.0%	1.8%	3969

Continúa en la siguiente página

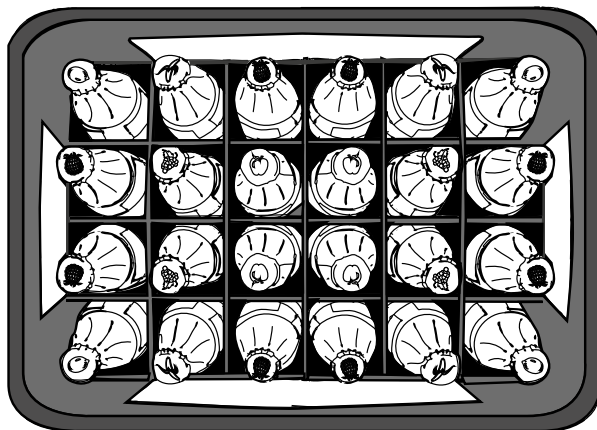
SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Mosquera	3.2%	7.2%	79.1%	9.2%	1.3%	839
Nariño	5.9%	9.6%	71.9%	10.1%	2.5%	7529
Neiva	4.3%	12.1%	71.9%	10.5%	1.3%	2771
Norte de Santander	4.5%	9.8%	72.9%	10.8%	1.9%	6054
Palmira	3.6%	8.8%	75.6%	9.9%	2.1%	2203
Pasto	4.4%	8.9%	76.1%	9.0%	1.6%	3215
Pereira	3.4%	9.1%	76.3%	9.0%	2.1%	3082
Piedecuesta	2.9%	10.6%	76.6%	9.2%	0.6%	1129
Pitalito	5.4%	12.9%	69.0%	11.3%	1.4%	1238
Popayán	3.8%	7.6%	78.0%	8.8%	1.8%	2066
Putumayo	6.4%	12.9%	63.8%	13.7%	3.2%	3016
Quibdó	6.9%	11.9%	67.0%	11.8%	2.4%	1228
Quindío	4.3%	12.4%	69.3%	11.8%	2.2%	1758
Riohacha	6.4%	13.4%	65.8%	11.3%	3.0%	2233
Rionegro	2.2%	7.7%	81.2%	7.7%	1.1%	826
Risaralda	4.9%	10.2%	71.2%	12.2%	1.5%	2150
Sabaneta	2.7%	8.5%	76.0%	5.3%	7.5%	375
Sahagún	6.0%	12.5%	64.6%	15.8%	1.1%	995
San Andrés	6.8%	14.7%	64.6%	11.8%	2.1%	381
Santa Marta	5.9%	11.5%	68.2%	11.8%	2.6%	4034
Santander	5.1%	9.4%	73.1%	10.8%	1.5%	6390
Sincedejo	4.2%	12.5%	69.6%	11.5%	2.2%	2280
Soacha	3.9%	9.3%	76.8%	8.2%	1.7%	3891
Sogamoso	2.6%	6.7%	79.9%	8.6%	2.2%	1104
Soledad	3.6%	9.2%	75.2%	10.2%	1.7%	4112
Sucre	7.3%	14.0%	60.4%	15.5%	2.8%	6218
Tolima	5.5%	12.1%	67.1%	12.8%	2.5%	7811
Tuluá	3.9%	10.9%	75.8%	8.2%	1.2%	1698
Tumaco	9.4%	15.4%	55.0%	13.6%	6.6%	2161
Tunja	3.3%	7.6%	79.7%	8.9%	0.6%	1245
Turbo	7.4%	16.5%	56.9%	13.7%	5.6%	1580
Uribe	9.1%	19.5%	52.2%	14.9%	4.3%	1506
Valle del Cauca	4.5%	10.8%	71.6%	10.9%	2.2%	7121
Valledupar	4.1%	11.0%	70.2%	9.5%	5.2%	3871
Vaupés	9.7%	18.4%	50.2%	17.1%	4.6%	217
Vichada	8.0%	14.5%	62.3%	13.1%	2.1%	289
Villavicencio	3.4%	10.1%	76.6%	8.4%	1.4%	4134
Yopal	4.4%	9.3%	73.3%	11.5%	1.5%	1333
Zipacquirá	3.0%	6.5%	82.3%	7.4%	0.9%	930
Colombia	4.9%	10.9%	71.0%	10.7%	2.5%	370357

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• **Pregunta 4.**

En una embotelladora se empaican los jugos en canastas, como se muestra en la figura



Figura

¿Cuántas botellas contienen 3 canastas?

- A. 8
- B. 24
- C. 27
- D. 72

• **Estructura**

Competencia	Resolución
Componente	Númérico - variacional
Afirmación	Resolver y formular problemas multiplicativos rutinarios de adición repetida.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	D

• **Resultados a nivel nacional y de Entidad Territorial certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	15.0%	40.9%	9.4%	31.2%	3.4%	733
Antioquia	11.0%	31.1%	6.4%	47.8%	3.8%	22710
Apartadó	11.4%	35.1%	6.7%	43.3%	3.5%	1328
Arauca	8.9%	31.3%	6.1%	51.2%	2.5%	2080

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Armenia	12.7%	30.5%	6.4%	47.7%	2.7%	1862
Atlántico	9.2%	36.0%	7.2%	43.2%	4.4%	4345
Barrancabermeja	10.9%	31.4%	5.9%	49.8%	2.0%	1916
Barranquilla	11.3%	33.4%	6.4%	46.2%	2.6%	8962
Bello	13.5%	28.4%	6.8%	49.3%	2.0%	3019
Bogotá, D.C.	12.3%	26.9%	5.3%	53.7%	1.8%	46463
Bolívar	10.8%	37.0%	9.1%	38.4%	4.7%	8514
Boyacá	8.9%	27.4%	6.0%	55.2%	2.5%	6397
Bucaramanga	10.3%	26.6%	5.1%	55.9%	2.1%	3879
Buenaventura	8.5%	33.9%	6.1%	47.9%	3.6%	3026
Buga	11.9%	33.0%	5.9%	46.1%	3.1%	900
Caldas	9.9%	30.0%	5.7%	51.4%	2.9%	4445
Cali	11.8%	32.4%	5.4%	47.3%	3.2%	14708
Caquetá	7.6%	31.4%	6.4%	51.5%	3.2%	2686
Cartagena	10.4%	33.4%	6.7%	45.5%	3.9%	8260
Cartago	10.8%	32.5%	6.3%	47.4%	3.0%	879
Casanare	10.0%	30.4%	6.2%	51.0%	2.4%	2277
Cauca	7.6%	29.9%	6.4%	51.0%	5.0%	9876
Cesar	8.7%	30.3%	7.3%	50.7%	3.0%	6702
Chocó	9.5%	32.4%	8.6%	44.2%	5.3%	3512
Chía	11.8%	29.6%	4.8%	53.2%	0.6%	840
Ciénaga	9.2%	36.4%	7.6%	42.8%	4.0%	1092
Cundinamarca	9.6%	28.7%	5.7%	53.6%	2.4%	11716
Córdoba	8.7%	36.4%	7.8%	43.7%	3.4%	10476
Cúcuta	10.2%	31.6%	6.0%	51.1%	1.2%	5703
Dosquebradas	13.1%	32.0%	5.3%	47.3%	2.3%	1286
Duitama	8.4%	20.7%	4.7%	65.1%	1.1%	855
Envigado	11.3%	24.3%	4.9%	57.4%	2.0%	1027
Facatativá	11.0%	28.0%	5.5%	53.8%	1.8%	1023
Florencia	10.0%	37.7%	7.6%	43.1%	1.7%	1537
Floridablanca	9.1%	24.0%	5.7%	60.3%	0.9%	1949
Fusagasugá	12.9%	31.8%	5.3%	48.1%	2.0%	1011
Girardot	11.6%	36.0%	8.2%	42.1%	2.1%	708
Girón	11.7%	31.2%	5.6%	49.4%	2.1%	1067
Guainía	9.7%	41.2%	8.8%	34.2%	6.1%	442
Guaviare	10.0%	29.7%	7.5%	48.9%	3.8%	757
Huila	9.0%	32.7%	5.9%	50.6%	1.8%	6157
Ibagué	9.1%	28.8%	5.1%	55.4%	1.6%	3950
Ipiales	11.1%	33.5%	5.3%	48.9%	1.2%	985
Itagüí	10.7%	28.6%	6.1%	52.3%	2.3%	1416

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Jamundí	12.2%	35.8%	7.8%	41.6%	2.6%	933
La Guajira	9.1%	35.5%	8.5%	41.8%	5.0%	3214
Lorica	10.5%	36.3%	9.3%	41.0%	3.0%	1078
Magangué	8.4%	45.8%	5.9%	35.5%	4.3%	1202
Magdalena	9.1%	30.9%	8.6%	46.0%	5.4%	7253
Maicao	11.1%	37.5%	8.2%	40.8%	2.3%	1796
Malambo	9.0%	28.1%	6.4%	53.5%	3.0%	989
Manizales	12.8%	31.3%	6.0%	48.3%	1.5%	2286
Medellín	13.8%	32.1%	6.0%	45.3%	2.8%	14976
Meta	9.5%	31.2%	6.1%	50.0%	3.1%	4172
Montería	11.0%	34.9%	8.2%	44.0%	2.0%	3969
Mosquera	12.2%	30.3%	5.8%	49.3%	2.4%	839
Nariño	8.9%	30.2%	5.1%	52.9%	2.9%	7529
Neiva	11.1%	37.9%	4.5%	44.8%	1.7%	2771
Norte de Santander	8.2%	29.7%	4.9%	55.3%	1.9%	6054
Palmira	10.2%	31.4%	5.3%	50.9%	2.1%	2203
Pasto	13.7%	32.3%	5.2%	47.3%	1.4%	3215
Pereira	11.3%	30.4%	4.4%	51.1%	2.8%	3082
Piedecuesta	10.8%	28.1%	4.8%	55.4%	1.0%	1129
Pitalito	11.8%	32.6%	5.6%	49.0%	1.0%	1238
Popayán	10.9%	29.5%	5.4%	51.7%	2.5%	2066
Putumayo	9.5%	33.8%	6.0%	47.1%	3.5%	3016
Quibdó	8.6%	35.3%	8.3%	44.8%	3.1%	1228
Quindío	11.1%	30.4%	6.0%	49.6%	2.8%	1758
Riohacha	9.8%	35.6%	7.2%	44.0%	3.4%	2233
Rionegro	9.4%	30.8%	5.2%	53.4%	1.2%	826
Risaralda	8.2%	30.9%	5.4%	53.6%	1.9%	2150
Sabaneta	13.3%	23.2%	5.9%	49.9%	7.7%	375
Sahagún	8.1%	39.5%	8.2%	42.9%	1.2%	995
San Andrés	17.6%	34.4%	7.9%	37.8%	2.4%	381
Santa Marta	10.5%	36.3%	6.4%	42.8%	3.9%	4034
Santander	8.2%	26.4%	5.6%	58.1%	1.7%	6390
Sincelejo	10.8%	34.1%	7.9%	44.9%	2.4%	2280
Soacha	11.8%	28.2%	6.0%	52.4%	1.5%	3891
Sogamoso	8.0%	24.2%	5.9%	59.5%	2.4%	1104
Soledad	8.8%	31.1%	6.3%	52.1%	1.8%	4112
Sucre	9.7%	38.6%	8.1%	39.9%	3.7%	6218
Tolima	8.4%	33.0%	6.8%	49.1%	2.6%	7811
Tuluá	9.6%	31.4%	5.4%	51.6%	2.0%	1698
Tumaco	9.9%	34.4%	9.8%	38.1%	7.8%	2161

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Tunja	10.2%	23.4%	5.3%	60.6%	0.6%	1245
Turbo	12.8%	39.5%	9.1%	33.1%	5.6%	1580
Uribe	9.7%	36.1%	11.4%	36.9%	6.0%	1506
Valle del Cauca	10.3%	32.7%	6.0%	48.7%	2.4%	7121
Valledupar	9.0%	31.5%	6.1%	47.9%	5.6%	3871
Vaupés	11.5%	39.6%	11.5%	32.3%	5.1%	217
Vichada	8.0%	34.3%	8.3%	47.8%	1.7%	289
Villavicencio	8.8%	29.8%	5.7%	53.8%	1.9%	4134
Yopal	11.9%	30.5%	5.5%	50.2%	2.0%	1333
Zipaquirá	10.8%	26.0%	5.3%	56.9%	1.1%	930
Colombia	10.4%	31.3%	6.3%	49.1%	2.9%	370357

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.



- **Pregunta 5.**

Pablo sumó el dinero que tenía:

$$\$500 + \$500 + \$500 + \$500$$

La cantidad de dinero que tenía se puede expresar como

- A. 500×1
- B. 500×2
- C. 500×4
- D. 500×5

- **Estructura**

Competencia	Razonamiento
Componente	Númerico - variacional
Afirmación	Generar equivalencias entre expresiones numéricas.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	C

- **Resultados a nivel nacional y de Entidad Territorial certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	10.0%	16.6%	38.1%	31.8%	3.5%	733
Antioquia	7.1%	15.7%	47.9%	25.4%	3.9%	22710
Apartadó	9.8%	17.7%	42.4%	27.6%	2.6%	1328
Arauca	8.3%	15.3%	50.7%	23.4%	2.4%	2080
Armenia	6.6%	15.5%	51.6%	24.1%	2.3%	1862
Atlántico	7.3%	13.9%	51.6%	23.1%	4.1%	4345
Barrancabermeja	7.6%	14.7%	53.6%	22.0%	2.1%	1916
Barranquilla	7.5%	13.4%	53.2%	23.2%	2.7%	8962
Bello	6.7%	16.0%	50.9%	24.4%	2.0%	3019
Bogotá, D.C.	5.2%	13.2%	59.3%	20.5%	1.9%	46463
Bolívar	10.3%	16.6%	40.1%	28.2%	4.8%	8514
Boyacá	6.5%	15.6%	51.1%	24.3%	2.4%	6397
Bucaramanga	5.7%	12.7%	61.1%	18.3%	2.3%	3879
Buenaventura	6.7%	11.7%	54.6%	23.1%	3.9%	3026
Buga	7.9%	12.6%	53.1%	23.9%	2.6%	900

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Caldas	6.4%	14.6%	53.1%	23.1%	2.9%	4445
Cali	6.5%	13.8%	53.1%	23.7%	2.9%	14708
Caquetá	6.2%	16.5%	49.5%	24.8%	2.9%	2686
Cartagena	7.8%	12.9%	51.4%	24.0%	3.9%	8260
Cartago	7.2%	14.7%	53.6%	22.0%	2.6%	879
Casanare	7.3%	17.0%	46.4%	27.1%	2.2%	2277
Cauca	6.4%	12.7%	54.2%	21.7%	5.1%	9876
Cesar	7.8%	15.1%	50.7%	23.2%	3.2%	6702
Chocó	9.5%	14.9%	45.6%	24.7%	5.4%	3512
Chía	5.1%	13.9%	58.3%	21.8%	0.8%	840
Ciénaga	7.9%	14.1%	51.1%	23.7%	3.2%	1092
Cundinamarca	6.1%	13.9%	56.2%	21.6%	2.2%	11716
Córdoba	8.9%	14.7%	46.4%	26.7%	3.2%	10476
Cúcuta	6.9%	16.3%	54.2%	21.4%	1.2%	5703
Dosquebradas	6.1%	12.8%	55.0%	24.2%	2.0%	1286
Duitama	3.9%	13.1%	65.0%	17.0%	1.1%	855
Envigado	4.2%	11.5%	67.3%	15.7%	1.4%	1027
Facatativá	7.1%	15.8%	52.5%	23.2%	1.4%	1023
Florencia	8.1%	17.0%	49.2%	24.7%	1.0%	1537
Floridablanca	5.5%	12.2%	63.4%	18.1%	0.8%	1949
Fusagasugá	4.5%	17.2%	52.9%	23.8%	1.5%	1011
Girardot	7.1%	15.1%	51.0%	25.0%	1.8%	708
Girón	8.5%	14.8%	50.8%	23.7%	2.2%	1067
Guainía	10.2%	18.1%	37.8%	27.4%	6.6%	442
Guaviare	9.2%	16.8%	40.0%	30.0%	4.0%	757
Huila	7.6%	15.6%	51.1%	23.9%	1.7%	6157
Ibagué	7.2%	13.4%	57.2%	20.7%	1.6%	3950
Ipiales	7.7%	10.9%	59.0%	20.3%	2.1%	985
Itagüí	6.5%	13.5%	55.2%	22.5%	2.3%	1416
Jamundí	8.9%	15.9%	46.4%	26.6%	2.3%	933
La Guajira	8.1%	14.2%	48.3%	24.3%	5.1%	3214
Lorica	10.9%	14.2%	44.4%	27.7%	2.8%	1078
Magangué	10.2%	15.3%	39.9%	30.0%	4.5%	1202
Magdalena	7.9%	14.8%	48.9%	23.3%	5.2%	7253
Maicao	9.6%	15.9%	45.7%	25.9%	3.0%	1796
Malambo	7.2%	10.5%	57.9%	21.2%	3.1%	989
Manizales	5.5%	12.6%	59.3%	20.8%	1.7%	2286
Medellín	7.1%	15.2%	50.1%	25.0%	2.6%	14976
Meta	8.7%	16.1%	47.3%	25.0%	2.9%	4172
Montería	9.3%	15.9%	44.5%	28.5%	1.8%	3969

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Mosquera	6.0%	15.6%	53.3%	23.1%	2.0%	839
Nariño	6.0%	11.7%	58.6%	20.7%	3.0%	7529
Neiva	8.1%	14.5%	51.5%	24.0%	1.8%	2771
Norte de Santander	7.4%	15.2%	55.0%	20.5%	1.9%	6054
Palmira	6.9%	13.1%	54.3%	23.6%	2.2%	2203
Pasto	5.8%	13.1%	57.4%	21.8%	1.8%	3215
Pereira	6.5%	14.2%	53.9%	22.8%	2.7%	3082
Piedecuesta	8.1%	13.1%	58.7%	19.0%	1.1%	1129
Pitalito	7.4%	16.9%	48.9%	25.9%	0.8%	1238
Popayán	5.0%	12.1%	60.1%	20.5%	2.3%	2066
Putumayo	8.7%	16.9%	47.4%	24.0%	3.1%	3016
Quibdó	7.1%	14.0%	55.3%	20.7%	2.9%	1228
Quindío	6.5%	16.2%	50.5%	24.2%	2.6%	1758
Riohacha	7.5%	16.3%	51.2%	21.1%	3.9%	2233
Rionegro	5.1%	14.0%	58.7%	21.3%	0.8%	826
Risaralda	6.8%	13.6%	52.7%	25.3%	1.6%	2150
Sabaneta	6.4%	14.1%	56.0%	16.3%	7.2%	375
Sahagún	10.5%	14.5%	47.8%	26.5%	0.7%	995
San Andrés	7.3%	21.0%	40.7%	28.9%	2.1%	381
Santa Marta	7.8%	13.9%	51.2%	23.6%	3.5%	4034
Santander	6.5%	13.9%	58.2%	19.7%	1.6%	6390
Sincelejo	7.5%	14.0%	52.3%	23.8%	2.4%	2280
Soacha	5.6%	14.6%	54.9%	23.2%	1.6%	3891
Sogamoso	6.2%	13.5%	57.3%	20.9%	2.1%	1104
Soledad	6.4%	12.4%	58.5%	21.0%	1.8%	4112
Sucre	9.1%	15.8%	44.0%	27.8%	3.3%	6218
Tolima	8.0%	15.7%	48.9%	24.7%	2.7%	7811
Tuluá	6.6%	15.8%	50.2%	25.7%	1.6%	1698
Tumaco	8.3%	15.5%	42.6%	26.0%	7.5%	2161
Tunja	5.8%	11.5%	64.3%	17.5%	0.9%	1245
Turbo	10.9%	16.5%	35.2%	31.6%	5.8%	1580
Uribe	10.4%	15.2%	42.0%	26.3%	6.2%	1506
Valle del Cauca	7.5%	15.6%	49.9%	24.4%	2.6%	7121
Valledupar	6.9%	12.6%	52.8%	22.6%	5.1%	3871
Vaupés	11.1%	17.5%	31.3%	35.5%	4.6%	217
Vichada	12.5%	21.5%	38.4%	25.6%	2.1%	289
Villavicencio	6.3%	13.8%	58.0%	20.0%	1.9%	4134
Yopal	6.5%	17.9%	50.7%	23.1%	1.8%	1333
Zipaquirá	5.3%	12.5%	62.3%	18.6%	1.4%	930
Colombia	7.1%	14.4%	52.4%	23.3%	2.8%	370357

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• **Pregunta 6.**

Federico tiene estas monedas.



¿Cuál grupo de monedas representa la misma cantidad de dinero?



• **Estructura**

Competencia	Razonamiento
Componente	Numérico - variacional
Afirmación	Generar equivalencias entre expresiones numéricas.
Nivel de desempeño	Mínimo
Respuesta Correcta	D

• **Resultados a nivel nacional y de Entidad Territorial certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	12.8%	8.6%	16.4%	59.2%	3.0%	733
Antioquia	10.2%	8.3%	11.8%	66.2%	3.6%	22710
Apartadó	10.2%	10.7%	10.2%	66.9%	2.1%	1328
Arauca	6.8%	7.2%	9.5%	74.4%	2.1%	2080
Armenia	7.0%	9.0%	9.9%	72.1%	1.9%	1862
Atlántico	9.1%	8.4%	9.6%	69.4%	3.5%	4345
Barrancabermeja	7.9%	7.6%	8.5%	74.9%	1.1%	1916
Barranquilla	7.6%	7.9%	9.1%	73.4%	2.1%	8962
Bello	8.7%	8.1%	10.0%	71.3%	1.9%	3019
Bogotá, D.C.	5.1%	8.6%	8.7%	75.9%	1.6%	46463
Bolívar	13.1%	11.0%	13.0%	58.9%	4.0%	8514

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Boyacá	7.9%	8.2%	10.6%	71.1%	2.3%	6397
Bucaramanga	5.0%	7.4%	6.9%	79.0%	1.7%	3879
Buenaventura	9.5%	7.4%	10.6%	69.7%	2.8%	3026
Buga	6.2%	8.6%	11.1%	72.0%	2.1%	900
Caldas	6.1%	6.7%	9.1%	75.6%	2.5%	4445
Cali	6.6%	7.8%	9.9%	73.1%	2.7%	14708
Caquetá	9.0%	9.5%	12.2%	66.4%	2.8%	2686
Cartagena	9.1%	8.3%	9.7%	69.7%	3.2%	8260
Cartago	7.5%	7.1%	8.4%	74.6%	2.4%	879
Casanare	8.3%	8.2%	10.7%	71.2%	1.6%	2277
Cauca	8.2%	7.8%	10.1%	69.4%	4.5%	9876
Cesar	10.8%	9.4%	11.8%	65.5%	2.5%	6702
Chocó	12.8%	10.1%	13.2%	58.9%	5.0%	3512
Chía	6.5%	9.9%	9.9%	73.2%	0.5%	840
Ciénaga	9.2%	8.3%	10.2%	69.1%	3.1%	1092
Cundinamarca	5.9%	7.7%	7.6%	76.8%	2.0%	11716
Córdoba	11.9%	9.9%	12.7%	63.0%	2.5%	10476
Cúcuta	6.8%	6.9%	9.0%	76.4%	0.9%	5703
Dosquebradas	7.1%	7.2%	11.4%	72.7%	1.6%	1286
Duitama	3.9%	6.8%	5.1%	83.3%	0.9%	855
Envigado	4.4%	7.3%	6.9%	80.0%	1.4%	1027
Facatativá	6.8%	7.6%	8.7%	76.0%	0.9%	1023
Florencia	10.0%	8.6%	9.3%	71.0%	1.2%	1537
Floridablanca	4.3%	6.7%	6.4%	81.9%	0.7%	1949
Fusagasugá	6.8%	6.6%	10.7%	74.7%	1.2%	1011
Girardot	9.2%	7.6%	11.3%	70.1%	1.8%	708
Girón	5.7%	10.6%	10.1%	72.0%	1.6%	1067
Guainía	12.0%	10.2%	21.3%	50.5%	6.1%	442
Guaviare	13.5%	13.9%	16.5%	53.0%	3.2%	757
Huila	8.1%	7.4%	9.9%	73.3%	1.3%	6157
Ibagué	5.7%	7.0%	7.1%	79.0%	1.3%	3950
Ipiales	6.5%	6.8%	7.3%	78.0%	1.4%	985
Itagüí	10.4%	8.9%	8.3%	70.8%	1.6%	1416
Jamundí	11.1%	7.0%	9.0%	71.1%	1.8%	933
La Guajira	11.8%	10.9%	12.4%	60.5%	4.5%	3214
Lorica	13.1%	9.6%	12.2%	63.0%	2.2%	1078
Magangué	10.3%	9.0%	11.6%	65.5%	3.7%	1202
Magdalena	11.4%	9.8%	10.9%	63.7%	4.2%	7253
Maicao	11.2%	11.9%	15.2%	59.0%	2.6%	1796
Malambo	8.3%	8.0%	7.2%	73.9%	2.6%	989

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Manizales	6.5%	8.4%	8.1%	75.5%	1.5%	2286
Medellín	8.4%	8.2%	9.1%	71.9%	2.4%	14976
Meta	8.4%	7.8%	10.1%	71.1%	2.6%	4172
Montería	10.5%	8.1%	11.4%	68.2%	1.8%	3969
Mosquera	5.6%	7.2%	8.2%	77.6%	1.4%	839
Nariño	8.7%	7.5%	11.9%	69.8%	2.2%	7529
Neiva	6.7%	7.7%	9.6%	75.0%	1.0%	2771
Norte de Santander	7.1%	7.4%	9.7%	74.3%	1.5%	6054
Palmira	6.6%	8.4%	7.3%	75.8%	2.0%	2203
Pasto	6.0%	6.8%	9.5%	76.6%	1.1%	3215
Pereira	7.4%	7.9%	9.2%	73.3%	2.2%	3082
Piedecuesta	6.8%	7.4%	7.0%	78.1%	0.7%	1129
Pitalito	8.7%	7.4%	8.2%	74.9%	0.9%	1238
Popayán	5.0%	7.1%	8.0%	78.0%	1.8%	2066
Putumayo	11.2%	11.0%	12.9%	62.3%	2.7%	3016
Quibdó	11.5%	9.4%	9.9%	67.3%	2.0%	1228
Quindío	8.4%	8.5%	11.2%	69.3%	2.5%	1758
Riohacha	9.6%	8.8%	12.6%	66.6%	2.4%	2233
Rionegro	6.8%	7.5%	8.5%	76.5%	0.7%	826
Risaralda	8.8%	6.7%	9.9%	73.0%	1.7%	2150
Sabaneta	6.7%	6.7%	8.0%	70.9%	7.7%	375
Sahagún	11.8%	9.6%	9.7%	68.2%	0.6%	995
San Andrés	15.7%	11.8%	15.0%	55.6%	1.8%	381
Santa Marta	8.1%	8.9%	10.6%	69.8%	2.7%	4034
Santander	7.2%	7.9%	9.3%	74.3%	1.3%	6390
Sincelejo	7.8%	7.6%	9.9%	72.7%	1.9%	2280
Soacha	5.8%	8.2%	8.6%	75.9%	1.4%	3891
Sogamoso	4.9%	8.7%	7.6%	76.8%	2.0%	1104
Soledad	6.5%	5.1%	7.4%	79.6%	1.4%	4112
Sucre	12.0%	10.2%	12.6%	62.3%	2.8%	6218
Tolima	8.2%	8.0%	9.5%	72.2%	2.1%	7811
Tuluá	7.1%	7.7%	7.1%	77.1%	0.9%	1698
Tumaco	14.5%	11.9%	12.9%	54.0%	6.6%	2161
Tunja	4.9%	7.2%	6.7%	80.4%	0.7%	1245
Turbo	13.4%	11.1%	12.9%	57.0%	5.6%	1580
Uribe	17.7%	13.0%	18.9%	46.0%	4.3%	1506
Valle del Cauca	7.4%	7.0%	8.9%	74.6%	2.1%	7121
Valledupar	6.7%	8.0%	9.0%	71.4%	4.9%	3871
Vaupés	15.7%	12.4%	24.9%	41.9%	5.1%	217
Vichada	12.1%	11.1%	13.5%	61.6%	1.7%	289

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Villavicencio	5.7%	6.9%	6.8%	79.3%	1.4%	4134
Yopal	7.1%	7.2%	9.2%	75.1%	1.4%	1333
Zipaquirá	4.7%	7.1%	7.3%	80.0%	0.9%	930
Colombia	8.1%	8.3%	10.0%	71.2%	2.4%	370357

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• **Pregunta 7.**

Observa lo que está haciendo Juliana.



Figura

¿Qué mide Juliana en el cuadro?

- A. El largo.
- B. El peso.
- C. Un ángulo.
- D. La temperatura.

• **Estructura**

Competencia	Comunicación
Componente	Geométrico - métrico
Afirmación	Identificar atributos de objetos y eventos que son susceptibles de ser medidos.
Nivel de desempeño	Mínimo
Respuesta Correcta	A

• **Resultados a nivel nacional y de Entidad Territorial certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Amazonas	60.6%	9.8%	15.3%	11.9%	2.5%	733
Antioquia	76.6%	5.7%	7.2%	7.0%	3.5%	22710
Apartadó	68.6%	8.1%	11.3%	9.4%	2.6%	1328
Arauca	78.7%	4.3%	9.4%	5.6%	2.0%	2080
Armenia	79.8%	5.5%	6.8%	6.2%	1.7%	1862
Atlántico	71.3%	7.6%	10.0%	7.4%	3.7%	4345
Barrancabermeja	80.4%	5.8%	7.0%	5.6%	1.1%	1916

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Barranquilla	79.3%	5.3%	7.6%	5.4%	2.3%	8962
Bello	81.9%	4.1%	6.7%	5.3%	2.0%	3019
Bogotá, D.C.	84.7%	3.2%	6.3%	4.2%	1.7%	46463
Bolívar	61.3%	11.3%	13.0%	10.2%	4.2%	8514
Boyacá	80.3%	4.5%	6.7%	6.0%	2.5%	6397
Bucaramanga	83.9%	3.2%	5.9%	5.1%	1.8%	3879
Buenaventura	72.2%	6.7%	7.6%	10.2%	3.3%	3026
Buga	82.3%	4.2%	5.9%	5.2%	2.3%	900
Caldas	80.5%	4.8%	6.4%	5.6%	2.7%	4445
Cali	81.9%	3.8%	6.4%	5.2%	2.7%	14708
Caquetá	75.6%	5.8%	7.8%	8.0%	2.8%	2686
Cartagena	75.2%	6.7%	8.4%	6.2%	3.5%	8260
Cartago	81.0%	4.6%	6.7%	5.5%	2.3%	879
Casanare	77.5%	5.5%	8.7%	6.3%	2.1%	2277
Cauca	74.4%	6.1%	7.7%	7.3%	4.4%	9876
Cesar	73.0%	8.2%	9.5%	6.4%	2.8%	6702
Chocó	61.1%	11.0%	12.3%	10.9%	4.7%	3512
Chía	84.4%	3.3%	7.7%	3.8%	0.7%	840
Ciénaga	70.1%	8.6%	10.9%	7.6%	2.7%	1092
Cundinamarca	81.5%	3.7%	7.5%	5.3%	2.0%	11716
Córdoba	67.8%	9.0%	11.8%	8.4%	2.9%	10476
Cúcuta	81.4%	4.3%	7.6%	5.8%	0.9%	5703
Dosquebradas	83.1%	3.3%	5.6%	6.2%	1.7%	1286
Duitama	88.2%	2.8%	5.5%	2.7%	0.8%	855
Envigado	88.2%	3.5%	3.9%	3.0%	1.4%	1027
Facatativá	84.0%	5.1%	5.3%	4.2%	1.5%	1023
Florencia	75.1%	6.4%	9.6%	7.7%	1.2%	1537
Floridablanca	88.9%	3.0%	3.5%	4.1%	0.6%	1949
Fusagasugá	81.9%	3.8%	6.0%	6.7%	1.6%	1011
Girardot	75.8%	6.4%	8.8%	7.3%	1.7%	708
Girón	80.0%	5.2%	7.2%	6.0%	1.6%	1067
Guainía	65.4%	8.1%	11.8%	9.3%	5.4%	442
Guaviare	70.9%	5.7%	10.8%	9.1%	3.4%	757
Huila	78.6%	4.9%	7.9%	7.1%	1.5%	6157
Ibagué	83.7%	2.9%	6.3%	5.6%	1.3%	3950
Ipiales	86.9%	4.2%	4.6%	3.0%	1.3%	985
Itagüí	81.9%	4.7%	6.9%	4.6%	1.9%	1416
Jamundí	76.3%	5.6%	8.3%	7.6%	2.3%	933
La Guajira	62.8%	11.8%	13.1%	8.2%	4.1%	3214
Lorica	65.0%	10.9%	12.9%	8.5%	2.6%	1078

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Magangué	63.7%	11.6%	12.6%	8.2%	3.8%	1202
Magdalena	65.8%	10.5%	10.4%	8.7%	4.5%	7253
Maicao	66.7%	9.5%	13.4%	7.7%	2.7%	1796
Malambo	76.2%	6.6%	8.0%	6.1%	3.1%	989
Manizales	83.4%	3.8%	6.6%	4.8%	1.4%	2286
Medellín	79.8%	4.7%	7.1%	6.1%	2.3%	14976
Meta	76.8%	5.2%	9.0%	6.1%	2.9%	4172
Montería	73.4%	8.6%	9.4%	6.8%	1.8%	3969
Mosquera	83.8%	2.7%	5.7%	5.6%	2.1%	839
Nariño	79.1%	4.3%	7.0%	7.2%	2.5%	7529
Neiva	78.2%	4.7%	9.1%	6.7%	1.3%	2771
Norte de Santander	81.0%	4.0%	7.1%	6.3%	1.6%	6054
Palmira	83.7%	3.2%	5.9%	5.0%	2.3%	2203
Pasto	85.1%	4.1%	5.3%	4.4%	1.1%	3215
Pereira	83.5%	3.6%	5.6%	5.1%	2.2%	3082
Piedecuesta	85.0%	3.8%	5.6%	4.8%	0.8%	1129
Pitalito	80.8%	5.3%	7.2%	6.0%	0.8%	1238
Popayán	84.6%	3.3%	5.4%	4.5%	2.2%	2066
Putumayo	77.1%	5.3%	7.4%	7.1%	3.1%	3016
Quibdó	69.1%	7.7%	11.2%	9.0%	2.9%	1228
Quindío	77.4%	5.4%	7.4%	7.3%	2.4%	1758
Riohacha	68.3%	9.9%	11.7%	7.1%	3.0%	2233
Rionegro	85.4%	2.4%	6.8%	4.4%	1.1%	826
Risaralda	80.4%	5.0%	6.2%	7.0%	1.4%	2150
Sabaneta	79.5%	4.3%	4.0%	4.8%	7.5%	375
Sahagún	72.9%	8.4%	10.9%	6.9%	0.9%	995
San Andrés	65.6%	12.9%	12.9%	6.6%	2.1%	381
Santa Marta	76.2%	6.1%	8.7%	6.5%	2.6%	4034
Santander	82.1%	4.2%	6.4%	5.8%	1.4%	6390
Sincelejo	75.7%	6.5%	9.3%	6.1%	2.4%	2280
Soacha	82.1%	3.8%	7.4%	5.0%	1.7%	3891
Sogamoso	83.1%	2.5%	8.2%	4.3%	2.0%	1104
Soledad	83.1%	4.6%	5.9%	4.7%	1.8%	4112
Sucre	64.0%	9.6%	13.1%	10.3%	3.0%	6218
Tolima	74.9%	5.7%	9.2%	7.8%	2.4%	7811
Tuluá	85.4%	2.7%	5.2%	5.6%	1.1%	1698
Tumaco	58.4%	12.7%	11.1%	10.8%	7.0%	2161
Tunja	85.7%	2.7%	6.6%	4.3%	0.6%	1245
Turbo	58.8%	10.4%	14.1%	11.3%	5.4%	1580
Uribe	50.1%	16.1%	16.9%	11.6%	5.2%	1506

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Valle del Cauca	80.6%	4.0%	7.1%	5.8%	2.5%	7121
Valledupar	77.4%	5.6%	7.3%	5.0%	4.7%	3871
Vaupés	51.2%	13.8%	18.4%	12.9%	3.7%	217
Vichada	71.3%	5.9%	13.1%	7.3%	2.4%	289
Villavicencio	83.0%	3.4%	7.1%	4.9%	1.6%	4134
Yopal	79.6%	4.1%	7.9%	7.0%	1.5%	1333
Zipaquirá	84.7%	2.7%	7.8%	3.7%	1.1%	930
Colombia	77.7%	5.5%	8.0%	6.3%	2.5%	370357

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• **Pregunta 8.**

¿Cuáles figuras tienen el mismo número de lados?

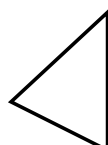


Figura 1

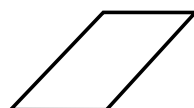


Figura 2

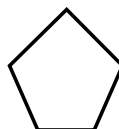


Figura 3



Figura 4

- A. La 1 y la 2.
- B. La 1 y la 3.
- C. La 2 y la 3.
- D. La 2 y la 4.

• **Estructura**

Competencia	Razonamiento
Componente	Geométrico - métrico
Afirmación	Establecer diferencias y similitudes entre objetos bidimensionales y tridimensionales de acuerdo con sus propiedades.
Nivel de desempeño	Mínimo
Respuesta Correcta	D

• **Resultados a nivel nacional y de Entidad Territorial certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	9.7%	15.1%	15.7%	55.9%	3.5%	733
Antioquia	9.3%	9.5%	9.9%	67.3%	4.0%	22710
Apartadó	11.4%	11.4%	12.3%	62.1%	2.9%	1328
Arauca	7.4%	9.6%	8.9%	71.1%	3.1%	2080
Armenia	8.9%	8.3%	9.0%	70.9%	2.8%	1862
Atlántico	8.6%	11.3%	12.0%	64.1%	4.0%	4345
Barrancabermeja	8.0%	8.7%	8.1%	73.5%	1.6%	1916
Barranquilla	9.1%	9.2%	8.2%	70.7%	2.7%	8962
Bello	9.3%	8.3%	7.2%	72.9%	2.3%	3019
Bogotá, D.C.	6.5%	6.2%	6.1%	79.3%	2.0%	46463
Bolívar	11.6%	13.5%	14.4%	55.6%	4.8%	8514
Boyacá	7.5%	7.9%	8.6%	73.4%	2.6%	6397
Bucaramanga	6.1%	6.1%	6.2%	79.3%	2.3%	3879

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Buenaventura	9.6%	10.3%	8.7%	67.6%	3.8%	3026
Buga	8.1%	7.6%	7.6%	74.1%	2.7%	900
Caldas	8.8%	8.4%	8.3%	71.7%	2.8%	4445
Cali	8.8%	7.3%	7.1%	73.6%	3.2%	14708
Caquetá	8.9%	9.5%	10.5%	68.2%	2.9%	2686
Cartagena	8.4%	10.2%	9.3%	68.5%	3.6%	8260
Cartago	6.8%	6.6%	6.9%	76.8%	2.8%	879
Casanare	8.6%	8.9%	9.7%	70.4%	2.4%	2277
Cauca	7.8%	9.6%	9.3%	67.9%	5.3%	9876
Cesar	9.1%	10.3%	10.9%	66.6%	3.1%	6702
Chocó	10.5%	13.3%	14.0%	56.8%	5.4%	3512
Chía	6.4%	7.3%	4.6%	80.7%	1.0%	840
Ciénaga	9.2%	12.3%	9.9%	65.5%	3.2%	1092
Cundinamarca	6.1%	6.7%	7.0%	77.8%	2.3%	11716
Córdoba	9.8%	11.8%	12.6%	62.3%	3.6%	10476
Cúcuta	8.0%	8.7%	7.6%	74.2%	1.5%	5703
Dosquebradas	9.3%	7.5%	7.9%	72.9%	2.4%	1286
Duitama	5.4%	4.7%	5.0%	84.0%	0.9%	855
Envigado	4.9%	4.2%	5.6%	83.7%	1.7%	1027
Facatativá	6.6%	6.1%	6.6%	78.4%	2.2%	1023
Florencia	8.8%	12.2%	11.1%	66.0%	1.9%	1537
Floridablanca	5.5%	5.8%	6.1%	81.8%	0.8%	1949
Fusagasugá	8.9%	7.4%	8.6%	73.9%	1.2%	1011
Girardot	11.0%	9.9%	10.2%	66.5%	2.4%	708
Girón	7.9%	7.6%	8.1%	74.0%	2.4%	1067
Guainía	9.5%	13.8%	11.5%	57.0%	8.1%	442
Guaviare	9.4%	11.6%	12.5%	62.9%	3.6%	757
Huila	7.9%	8.5%	8.0%	73.6%	2.0%	6157
Ibagué	6.7%	7.4%	6.4%	77.9%	1.6%	3950
Ipiales	6.8%	6.1%	5.3%	79.9%	1.9%	985
Itagüí	8.0%	6.9%	7.4%	75.7%	2.0%	1416
Jamundí	9.8%	9.2%	8.5%	69.3%	3.2%	933
La Guajira	10.1%	12.1%	12.8%	60.1%	4.9%	3214
Lorica	9.7%	12.0%	13.0%	61.4%	3.9%	1078
Magangué	10.6%	11.4%	12.8%	60.3%	4.9%	1202
Magdalena	10.4%	12.9%	13.0%	58.7%	5.0%	7253
Maicao	12.6%	14.0%	12.2%	57.9%	3.2%	1796
Malambo	6.9%	8.5%	11.1%	69.8%	3.7%	989
Manizales	7.0%	6.3%	6.8%	78.0%	1.8%	2286
Medellín	8.1%	7.8%	7.9%	73.4%	2.9%	14976
Meta	9.1%	9.4%	9.1%	69.3%	3.1%	4172

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

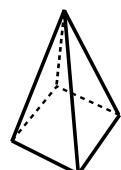
ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Montería	10.4%	10.2%	11.1%	66.0%	2.2%	3969
Mosquera	4.8%	5.7%	6.3%	81.0%	2.1%	839
Nariño	7.7%	8.1%	8.1%	73.1%	2.9%	7529
Neiva	9.5%	9.1%	8.7%	70.9%	1.8%	2771
Norte de Santander	6.9%	7.9%	8.1%	75.1%	2.0%	6054
Palmira	7.4%	6.5%	7.0%	76.5%	2.6%	2203
Pasto	6.9%	7.3%	7.1%	77.2%	1.4%	3215
Pereira	8.1%	7.9%	7.4%	73.7%	3.0%	3082
Piedecuesta	5.3%	5.7%	6.6%	81.1%	1.2%	1129
Pitalito	7.6%	8.2%	8.6%	74.3%	1.2%	1238
Popayán	6.8%	6.5%	6.6%	77.6%	2.4%	2066
Putumayo	8.4%	9.8%	10.3%	67.7%	3.7%	3016
Quibdó	9.4%	9.1%	8.7%	69.7%	3.1%	1228
Quindío	10.0%	9.6%	10.9%	66.7%	2.8%	1758
Riohacha	9.4%	11.2%	10.1%	65.8%	3.5%	2233
Rionegro	7.0%	5.4%	5.3%	81.1%	1.1%	826
Risaralda	8.3%	7.3%	7.3%	74.7%	2.5%	2150
Sabaneta	4.0%	4.3%	6.4%	78.1%	7.2%	375
Sahagún	8.7%	9.9%	12.9%	67.0%	1.4%	995
San Andrés	11.3%	14.4%	13.1%	58.3%	2.9%	381
Santa Marta	9.0%	10.3%	9.8%	67.6%	3.3%	4034
Santander	6.6%	7.0%	8.0%	76.6%	1.7%	6390
Sincelejo	9.6%	9.1%	8.6%	70.0%	2.6%	2280
Soacha	7.2%	6.3%	6.9%	77.3%	2.2%	3891
Sogamoso	7.1%	6.5%	6.3%	77.4%	2.7%	1104
Soledad	7.7%	8.7%	7.2%	74.4%	2.0%	4112
Sucre	10.1%	12.4%	14.4%	59.6%	3.5%	6218
Tolima	8.3%	10.1%	8.8%	70.2%	2.6%	7811
Tuluá	5.9%	7.0%	6.4%	79.3%	1.5%	1698
Tumaco	12.4%	15.5%	12.6%	51.8%	7.6%	2161
Tunja	5.2%	6.3%	4.9%	82.7%	0.9%	1245
Turbo	13.9%	14.6%	13.0%	51.7%	6.7%	1580
Uribe	10.6%	14.9%	20.3%	49.5%	4.7%	1506
Valle del Cauca	7.9%	8.7%	8.4%	72.2%	2.7%	7121
Valledupar	7.7%	7.5%	9.0%	70.4%	5.4%	3871
Vaupés	11.1%	13.8%	17.5%	51.2%	6.5%	217
Vichada	6.9%	9.0%	11.4%	70.6%	2.1%	289
Villavicencio	8.5%	6.0%	6.3%	77.5%	1.6%	4134
Yopal	7.3%	8.7%	7.7%	74.0%	2.3%	1333
Zipaquirá	5.8%	6.7%	5.8%	80.4%	1.3%	930
Colombia	8.3%	8.8%	8.8%	71.2%	2.9%	370357

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

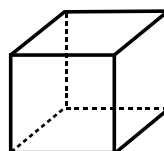


• Pregunta 9.

Observa los siguientes sólidos.



Pirámide



Cubo

¿Qué tiene la pirámide que el cubo **NO** tiene?

- A. Más de 3 caras.
- B. Más de 4 vértices.
- C. Una cara con forma de cuadrado.
- D. Caras con forma de triángulo.

• Estructura

Competencia	Razonamiento
Componente	Geométrico - métrico
Afirmación	Establecer diferencias y similitudes entre objetos bidimensionales y tridimensionales de acuerdo con sus propiedades.
Nivel de desempeño	Avanzado
Respuesta Correcta	D

• Resultados a nivel nacional y de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Amazonas	15.3%	20.6%	25.2%	35.2%	3.7%	733
Antioquia	15.7%	18.2%	20.2%	42.0%	3.9%	22710
Apartadó	15.7%	19.3%	24.4%	38.0%	2.6%	1328
Arauca	15.0%	16.9%	21.2%	44.5%	2.4%	2080
Armenia	13.4%	20.9%	17.0%	46.3%	2.4%	1862
Atlántico	13.6%	19.6%	20.9%	41.6%	4.3%	4345
Barrancabermeja	15.3%	18.8%	19.0%	45.3%	1.6%	1916
Barranquilla	15.1%	18.2%	19.6%	44.5%	2.7%	8962
Bello	17.7%	17.7%	18.6%	43.8%	2.2%	3019
Bogotá, D.C.	15.1%	16.2%	16.1%	50.4%	2.1%	46463
Bolívar	15.4%	22.0%	21.2%	36.1%	5.3%	8514

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Boyacá	16.3%	18.8%	19.8%	42.6%	2.5%	6397
Bucaramanga	15.0%	15.3%	17.7%	49.9%	2.1%	3879
Buenaventura	13.4%	18.6%	19.3%	44.8%	3.8%	3026
Buga	17.8%	16.3%	17.2%	45.6%	3.1%	900
Caldas	14.4%	16.8%	19.3%	46.5%	3.0%	4445
Cali	15.3%	17.6%	17.3%	46.6%	3.2%	14708
Caquetá	15.4%	19.7%	21.8%	39.8%	3.3%	2686
Cartagena	14.6%	18.7%	17.6%	45.3%	3.8%	8260
Cartago	16.0%	16.4%	15.7%	49.3%	2.6%	879
Casanare	16.0%	19.9%	20.6%	41.5%	2.0%	2277
Cauca	13.1%	18.3%	20.3%	43.1%	5.2%	9876
Cesar	14.7%	18.2%	21.8%	41.9%	3.4%	6702
Chocó	14.1%	22.6%	21.4%	35.9%	5.9%	3512
Chía	18.0%	16.7%	15.0%	49.3%	1.1%	840
Ciénaga	14.8%	20.9%	20.9%	39.7%	3.7%	1092
Cundinamarca	15.3%	17.4%	17.1%	47.6%	2.5%	11716
Córdoba	13.6%	20.6%	21.9%	40.5%	3.4%	10476
Cúcuta	15.4%	17.9%	19.8%	45.6%	1.3%	5703
Dosquebradas	14.2%	17.3%	18.0%	48.2%	2.4%	1286
Duitama	15.9%	14.4%	17.5%	51.2%	0.9%	855
Envigado	14.0%	13.2%	14.0%	57.3%	1.5%	1027
Facatativá	15.7%	15.2%	17.4%	50.1%	1.5%	1023
Florencia	18.1%	20.6%	21.5%	38.5%	1.3%	1537
Floridablanca	14.4%	14.4%	16.8%	53.4%	1.1%	1949
Fusagasugá	17.1%	18.0%	16.8%	46.5%	1.6%	1011
Girardot	16.0%	20.2%	22.7%	38.8%	2.3%	708
Girón	17.9%	18.6%	19.7%	41.1%	2.7%	1067
Guainía	14.7%	24.4%	19.7%	35.1%	6.1%	442
Guaviare	17.8%	17.0%	22.1%	39.5%	3.6%	757
Huila	14.9%	19.5%	20.5%	43.2%	1.8%	6157
Ibagué	15.7%	18.3%	17.2%	46.8%	2.0%	3950
Ipiales	14.1%	20.6%	18.7%	45.1%	1.5%	985
Itagüí	17.6%	18.6%	17.4%	44.6%	1.8%	1416
Jamundí	16.5%	19.4%	21.1%	39.9%	3.1%	933
La Guajira	14.9%	23.1%	20.0%	37.4%	4.7%	3214
Lorica	15.4%	22.3%	22.9%	35.5%	3.9%	1078
Magangué	16.7%	23.0%	21.1%	34.8%	4.3%	1202
Magdalena	13.1%	20.5%	20.5%	40.5%	5.4%	7253
Maicao	16.9%	20.3%	23.1%	36.9%	2.8%	1796
Malambo	14.7%	19.1%	20.3%	43.7%	2.2%	989

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Manizales	17.0%	17.9%	17.8%	45.1%	2.1%	2286
Medellín	17.6%	18.4%	17.4%	43.7%	2.9%	14976
Meta	16.5%	19.5%	19.4%	41.3%	3.2%	4172
Montería	16.2%	19.1%	20.2%	42.5%	2.0%	3969
Mosquera	17.5%	12.0%	17.2%	50.9%	2.4%	839
Nariño	12.5%	16.0%	20.1%	48.6%	2.9%	7529
Neiva	17.0%	19.4%	21.3%	40.3%	2.0%	2771
Norte de Santander	14.2%	17.3%	20.1%	46.3%	2.1%	6054
Palmira	16.1%	18.6%	16.2%	46.8%	2.4%	2203
Pasto	14.6%	17.9%	18.4%	47.7%	1.5%	3215
Pereira	16.0%	16.3%	17.5%	47.4%	2.7%	3082
Piedecuesta	16.6%	17.7%	20.2%	44.0%	1.5%	1129
Pitalito	16.1%	20.3%	20.6%	41.8%	1.2%	1238
Popayán	14.4%	16.7%	16.5%	49.7%	2.7%	2066
Putumayo	15.5%	19.3%	22.2%	39.6%	3.3%	3016
Quibdó	13.3%	17.6%	19.4%	46.9%	2.9%	1228
Quindío	14.8%	17.9%	19.8%	44.4%	3.1%	1758
Riohacha	14.5%	18.7%	21.8%	41.1%	3.9%	2233
Rionegro	16.0%	15.3%	17.4%	50.6%	0.7%	826
Risaralda	15.6%	20.2%	19.4%	42.5%	2.2%	2150
Sabaneta	13.1%	16.0%	17.1%	46.4%	7.5%	375
Sahagún	14.7%	21.4%	21.7%	41.6%	0.6%	995
San Andrés	13.9%	17.8%	20.2%	45.1%	2.9%	381
Santa Marta	14.5%	18.4%	20.0%	43.4%	3.7%	4034
Santander	14.1%	17.3%	18.1%	49.0%	1.5%	6390
Sincelejo	12.5%	21.1%	19.6%	44.3%	2.6%	2280
Soacha	16.4%	18.5%	17.2%	46.0%	1.9%	3891
Sogamoso	15.4%	17.0%	18.1%	47.0%	2.4%	1104
Soledad	14.1%	17.9%	17.2%	48.9%	1.9%	4112
Sucre	13.8%	21.8%	22.8%	38.3%	3.3%	6218
Tolima	15.7%	21.0%	19.9%	40.6%	2.7%	7811
Tuluá	16.7%	17.4%	19.4%	44.6%	1.9%	1698
Tumaco	15.4%	20.3%	20.5%	35.9%	8.1%	2161
Tunja	13.7%	17.4%	16.8%	50.5%	1.5%	1245
Turbo	16.2%	21.4%	21.1%	34.9%	6.4%	1580
Uribe	14.5%	23.5%	22.6%	32.5%	6.9%	1506
Valle del Cauca	16.2%	20.2%	18.4%	42.6%	2.6%	7121
Valledupar	13.9%	17.9%	19.2%	43.7%	5.3%	3871
Vaupés	14.7%	22.6%	23.5%	35.0%	4.1%	217
Vichada	17.3%	19.0%	25.6%	35.6%	2.4%	289

Continúa en la siguiente página

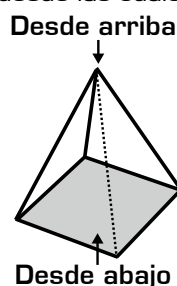
ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Villavicencio	16.1%	17.9%	17.5%	46.5%	1.9%	4134
Yopal	16.4%	17.0%	18.8%	46.1%	1.9%	1333
Zipaquirá	15.1%	16.7%	21.2%	46.0%	1.1%	930
Colombia	15.2%	18.4%	19.0%	44.4%	3.0%	370357

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.



• Pregunta 10.

Las flechas indican algunas posiciones desde las cuales se puede observar una pirámide.



¿Qué se observa de la pirámide desde abajo?

A.



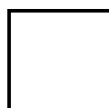
Punto

B.



Segmento

C.



Cuadrado

D.



Triángulo

• Estructura

Competencia	Razonamiento
Componente	Geométrico - métrico
Afirmación	Establecer diferencias y similitudes entre objetos bidimensionales y tridimensionales de acuerdo con sus propiedades.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	C

• Resultados a nivel nacional y de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Amazonas	11.6%	18.6%	36.0%	30.7%	3.1%	733
Antioquia	10.0%	15.4%	45.3%	25.8%	3.5%	22710
Apartadó	11.5%	16.9%	43.6%	24.8%	3.2%	1328
Arauca	7.5%	16.0%	48.8%	25.3%	2.4%	2080
Armenia	6.8%	14.3%	53.7%	23.2%	2.0%	1862
Atlántico	10.5%	16.3%	44.8%	24.9%	3.5%	4345
Barrancabermeja	8.0%	17.1%	49.9%	24.0%	1.0%	1916
Barranquilla	9.4%	15.7%	50.1%	22.6%	2.2%	8962

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Bello	8.3%	16.0%	53.3%	20.4%	2.1%	3019
Bogotá, D.C.	5.3%	13.4%	61.9%	17.6%	1.8%	46463
Bolívar	13.6%	18.0%	36.8%	27.4%	4.2%	8514
Boyacá	7.6%	15.6%	48.7%	25.8%	2.2%	6397
Bucaramanga	7.1%	13.8%	58.3%	19.1%	1.8%	3879
Buenaventura	12.2%	12.3%	47.9%	24.6%	3.1%	3026
Buga	8.6%	13.9%	53.0%	22.4%	2.1%	900
Caldas	8.2%	15.7%	47.2%	26.4%	2.5%	4445
Cali	7.2%	14.5%	54.8%	20.8%	2.8%	14708
Caquetá	11.0%	15.3%	41.5%	29.4%	2.8%	2686
Cartagena	10.4%	15.4%	50.3%	20.6%	3.3%	8260
Cartago	8.6%	15.0%	49.7%	24.1%	2.5%	879
Casanare	9.4%	18.6%	45.8%	24.2%	2.0%	2277
Cauca	11.1%	13.1%	45.6%	25.5%	4.7%	9876
Cesar	12.9%	15.5%	46.2%	22.6%	2.8%	6702
Chocó	16.6%	14.5%	36.0%	27.6%	5.2%	3512
Chía	5.4%	14.5%	61.4%	17.9%	0.8%	840
Ciénaga	11.9%	15.0%	43.6%	26.4%	3.1%	1092
Cundinamarca	7.2%	15.4%	53.0%	22.4%	2.1%	11716
Córdoba	12.6%	15.5%	42.5%	26.7%	2.8%	10476
Cúcuta	7.5%	17.1%	53.1%	21.4%	1.0%	5703
Dosquebradas	7.7%	14.1%	55.2%	21.5%	1.6%	1286
Duitama	7.1%	15.3%	62.7%	14.3%	0.6%	855
Envigado	4.6%	10.4%	67.7%	15.9%	1.5%	1027
Facatativá	6.6%	14.8%	58.7%	18.5%	1.4%	1023
Florencia	12.2%	17.8%	45.9%	23.2%	1.0%	1537
Floridablanca	4.9%	12.1%	67.1%	15.3%	0.6%	1949
Fusagasugá	7.1%	14.3%	56.9%	20.3%	1.4%	1011
Girardot	10.6%	19.4%	45.8%	22.7%	1.6%	708
Girón	6.9%	17.3%	54.4%	19.5%	1.9%	1067
Guainía	11.5%	14.0%	41.9%	26.9%	5.7%	442
Guaviare	12.2%	17.3%	41.5%	25.6%	3.4%	757
Huila	9.0%	15.1%	49.1%	25.5%	1.4%	6157
Ibagué	6.2%	14.2%	57.4%	20.8%	1.4%	3950
Ipiales	7.3%	15.9%	54.1%	21.2%	1.4%	985
Itagüí	9.0%	16.1%	54.2%	18.9%	1.8%	1416
Jamundí	10.4%	17.0%	47.1%	23.5%	2.0%	933
La Guajira	15.3%	14.5%	41.6%	24.1%	4.4%	3214
Lorica	11.4%	16.3%	44.2%	26.1%	1.9%	1078
Magangué	12.1%	17.9%	39.9%	25.7%	4.4%	1202

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Magdalena	13.4%	13.3%	41.9%	27.1%	4.3%	7253
Maicao	11.3%	18.7%	39.4%	28.0%	2.7%	1796
Malambo	11.1%	15.6%	49.0%	21.1%	3.1%	989
Manizales	7.0%	15.4%	56.0%	19.8%	1.8%	2286
Medellín	8.5%	17.0%	50.7%	21.3%	2.5%	14976
Meta	9.6%	15.7%	45.6%	26.4%	2.8%	4172
Montería	11.6%	15.1%	47.0%	24.7%	1.6%	3969
Mosquera	4.1%	16.4%	58.4%	19.4%	1.7%	839
Nariño	9.4%	12.8%	50.3%	25.0%	2.5%	7529
Neiva	7.8%	16.6%	50.6%	23.7%	1.4%	2771
Norte de Santander	8.1%	15.4%	50.6%	24.3%	1.5%	6054
Palmira	7.1%	15.4%	53.4%	21.9%	2.2%	2203
Pasto	6.9%	14.4%	59.5%	18.0%	1.2%	3215
Pereira	8.4%	14.3%	53.5%	21.2%	2.6%	3082
Piedecuesta	7.1%	15.7%	55.6%	20.6%	1.0%	1129
Pitalito	7.0%	16.0%	52.5%	23.7%	0.7%	1238
Popayán	6.8%	12.7%	58.1%	20.2%	2.2%	2066
Putumayo	10.5%	15.9%	46.5%	24.0%	3.1%	3016
Quibdó	9.8%	14.8%	43.5%	29.4%	2.5%	1228
Quindío	9.8%	15.7%	46.4%	25.3%	2.8%	1758
Riohacha	11.4%	16.2%	46.6%	22.9%	2.9%	2233
Rionegro	7.3%	12.6%	58.7%	20.5%	1.0%	826
Risaralda	8.0%	14.3%	46.8%	29.0%	1.8%	2150
Sabaneta	5.1%	13.9%	55.5%	18.1%	7.5%	375
Sahagún	14.6%	16.1%	45.3%	23.7%	0.3%	995
San Andrés	15.2%	13.6%	42.0%	26.2%	2.9%	381
Santa Marta	9.2%	15.4%	48.2%	24.4%	2.8%	4034
Santander	8.4%	14.9%	51.2%	24.4%	1.1%	6390
Sincelejo	9.6%	14.6%	52.1%	21.6%	2.1%	2280
Soacha	6.7%	13.9%	58.1%	20.0%	1.4%	3891
Sogamoso	7.2%	15.5%	56.4%	19.0%	1.9%	1104
Soledad	8.6%	15.4%	55.0%	19.4%	1.6%	4112
Sucre	13.6%	16.2%	40.6%	26.7%	2.9%	6218
Tolima	9.0%	15.6%	46.4%	26.5%	2.4%	7811
Tuluá	8.0%	16.4%	50.5%	24.1%	1.0%	1698
Tumaco	15.3%	14.6%	35.6%	28.4%	6.2%	2161
Tunja	6.7%	14.1%	63.0%	15.5%	0.7%	1245
Turbo	13.9%	17.5%	33.4%	30.1%	5.2%	1580
Uribe	20.5%	17.9%	35.6%	20.8%	5.2%	1506
Valle del Cauca	7.8%	16.3%	49.5%	24.0%	2.3%	7121

Continúa en la siguiente página

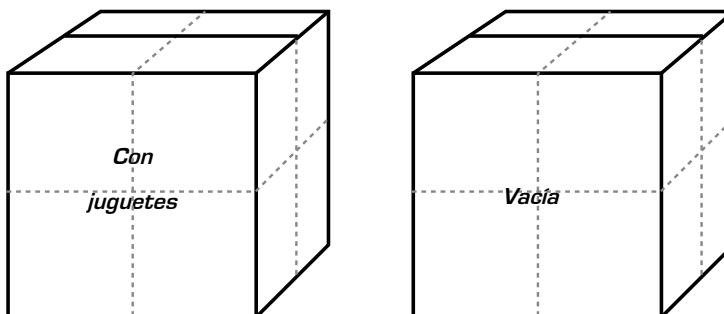
ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Valledupar	8.1%	14.2%	49.1%	23.7%	4.9%	3871
Vaupés	9.7%	12.0%	38.7%	35.5%	4.1%	217
Vichada	11.4%	20.4%	40.5%	25.3%	2.4%	289
Villavicencio	7.0%	15.4%	55.8%	20.4%	1.4%	4134
Yopal	6.8%	17.0%	54.5%	20.3%	1.6%	1333
Zipaquirá	6.3%	14.2%	58.4%	20.1%	1.0%	930
Colombia	9.0%	15.1%	50.5%	22.9%	2.5%	370357

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.



• Pregunta 11.

Darío debe levantar dos cajas de cartón, iguales en forma y tamaño. Una está llena de juguetes y la otra está vacía.



Al comparar las dos cajas con sus contenidos, es correcto afirmar que tienen

- A. el mismo volumen y pesan lo mismo.
- B. el mismo volumen y diferente peso.
- C. diferente volumen y pesan lo mismo.
- D. diferente volumen y diferente peso.

• Estructura

Competencia	Comunicación
Componente	Geométrico - métrico
Afirmación	Identificar atributos de objetos y eventos que son susceptibles de ser medidos.
Nivel de desempeño	Avanzado
Respuesta Correcta	B

• Resultados a nivel nacional y de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Amazonas	14.6%	41.5%	15.3%	24.4%	4.2%	733
Antioquia	9.4%	52.1%	10.1%	24.4%	3.9%	22710
Apartadó	11.4%	48.9%	12.8%	23.0%	4.0%	1328
Arauca	9.1%	55.0%	9.6%	23.9%	2.5%	2080
Armenia	8.7%	56.3%	8.8%	22.9%	3.3%	1862
Atlántico	10.4%	47.2%	12.4%	25.7%	4.3%	4345
Barrancabermeja	11.6%	52.2%	9.1%	25.3%	1.8%	1916

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Barranquilla	9.9%	50.5%	9.7%	26.9%	2.9%	8962
Bello	8.7%	55.5%	7.1%	26.0%	2.6%	3019
Bogotá, D.C.	8.3%	60.7%	6.0%	22.9%	2.1%	46463
Bolívar	14.1%	39.1%	16.7%	25.1%	5.1%	8514
Boyacá	9.5%	54.8%	8.3%	24.9%	2.5%	6397
Bucaramanga	9.0%	58.4%	6.2%	24.4%	2.0%	3879
Buenaventura	10.8%	48.7%	12.0%	24.9%	3.7%	3026
Buga	8.3%	54.4%	9.7%	24.9%	2.7%	900
Caldas	8.0%	54.0%	7.7%	27.4%	2.9%	4445
Cali	9.0%	55.5%	7.0%	25.1%	3.4%	14708
Caquetá	10.1%	53.1%	9.6%	23.8%	3.3%	2686
Cartagena	9.9%	52.0%	10.4%	23.7%	4.0%	8260
Cartago	8.3%	55.9%	7.2%	26.3%	2.4%	879
Casanare	10.5%	49.6%	9.4%	28.3%	2.2%	2277
Cauca	9.3%	51.7%	9.5%	24.4%	5.1%	9876
Cesar	10.7%	50.9%	12.6%	22.4%	3.4%	6702
Chocó	12.2%	44.5%	15.0%	23.1%	5.2%	3512
Chía	8.9%	62.3%	5.5%	22.4%	1.0%	840
Ciénaga	10.3%	47.3%	11.7%	26.6%	3.9%	1092
Cundinamarca	8.3%	57.0%	7.6%	24.6%	2.4%	11716
Córdoba	12.0%	44.8%	13.7%	26.0%	3.5%	10476
Cúcuta	9.4%	54.4%	9.4%	25.5%	1.3%	5703
Dosquebradas	8.3%	59.6%	6.2%	23.5%	2.3%	1286
Duitama	9.6%	60.0%	5.8%	23.9%	0.7%	855
Envigado	7.6%	64.7%	4.3%	21.8%	1.7%	1027
Facatativá	7.2%	59.3%	7.4%	24.4%	1.6%	1023
Florencia	10.7%	49.4%	11.5%	26.7%	1.8%	1537
Floridablanca	7.7%	64.8%	5.8%	20.9%	0.8%	1949
Fusagasugá	10.5%	53.0%	7.2%	27.8%	1.5%	1011
Girardot	9.6%	53.7%	10.7%	23.4%	2.5%	708
Girón	9.9%	58.1%	7.8%	21.8%	2.3%	1067
Guainía	12.0%	42.5%	14.9%	24.2%	6.3%	442
Guaviare	14.1%	47.8%	9.6%	24.8%	3.6%	757
Huila	9.4%	54.0%	8.8%	26.1%	1.7%	6157
Ibagué	7.8%	58.4%	7.4%	24.5%	1.8%	3950
Ipiales	7.7%	59.2%	6.5%	24.4%	2.2%	985
Itagüí	11.2%	54.1%	9.2%	23.7%	1.8%	1416
Jamundí	10.3%	52.4%	9.0%	25.4%	2.9%	933
La Guajira	11.1%	45.7%	13.2%	24.3%	5.7%	3214
Lorica	13.1%	42.6%	15.2%	25.8%	3.3%	1078

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Magangué	11.3%	39.6%	14.0%	30.1%	5.0%	1202
Magdalena	11.6%	45.7%	14.2%	23.1%	5.5%	7253
Maicao	13.4%	42.3%	16.0%	25.2%	3.2%	1796
Malambo	8.9%	52.9%	10.1%	24.3%	3.8%	989
Manizales	9.1%	58.2%	6.0%	24.9%	1.8%	2286
Medellín	10.2%	55.0%	8.0%	23.8%	3.0%	14976
Meta	9.4%	52.8%	9.6%	24.7%	3.4%	4172
Montería	11.9%	48.1%	11.6%	26.3%	2.1%	3969
Mosquera	7.4%	59.5%	5.1%	26.1%	1.9%	839
Nariño	7.7%	56.6%	7.9%	25.1%	2.7%	7529
Neiva	10.6%	51.5%	9.8%	26.1%	2.0%	2771
Norte de Santander	9.0%	55.2%	9.5%	24.6%	1.8%	6054
Palmira	8.7%	57.1%	6.9%	24.8%	2.6%	2203
Pasto	8.8%	56.1%	7.2%	26.5%	1.4%	3215
Pereira	7.9%	58.2%	6.2%	25.0%	2.7%	3082
Piedecuesta	8.7%	58.8%	6.9%	24.1%	1.5%	1129
Pitalito	9.7%	55.4%	9.6%	24.0%	1.3%	1238
Popayán	7.4%	58.4%	5.6%	25.8%	2.8%	2066
Putumayo	10.2%	50.1%	10.7%	25.7%	3.2%	3016
Quibdó	10.0%	49.8%	10.1%	27.0%	3.0%	1228
Quindío	9.0%	52.0%	10.2%	24.9%	3.8%	1758
Riohacha	10.6%	47.1%	11.9%	26.7%	3.7%	2233
Rionegro	9.3%	60.2%	5.9%	23.1%	1.5%	826
Risaralda	10.9%	52.3%	7.9%	26.9%	2.1%	2150
Sabaneta	8.3%	57.9%	5.9%	20.0%	8.0%	375
Sahagún	11.2%	43.4%	14.2%	30.5%	0.8%	995
San Andrés	16.3%	43.6%	13.9%	22.8%	3.4%	381
Santa Marta	10.9%	50.0%	9.3%	26.6%	3.3%	4034
Santander	7.9%	56.4%	8.6%	25.7%	1.4%	6390
Sincelejo	10.7%	53.0%	10.2%	23.8%	2.3%	2280
Soacha	8.7%	59.5%	6.3%	23.8%	1.7%	3891
Sogamoso	9.5%	59.1%	6.3%	22.7%	2.3%	1104
Soledad	9.0%	55.3%	8.5%	25.1%	2.1%	4112
Sucre	13.1%	41.9%	15.5%	25.9%	3.7%	6218
Tolima	10.4%	51.4%	10.6%	24.9%	2.8%	7811
Tuluá	8.7%	55.2%	8.1%	26.3%	1.8%	1698
Tumaco	12.5%	37.5%	16.7%	25.4%	8.0%	2161
Tunja	9.4%	63.1%	5.8%	20.7%	1.0%	1245
Turbo	15.1%	38.4%	16.1%	24.5%	6.0%	1580
Uribe	11.2%	38.2%	24.3%	20.8%	5.6%	1506

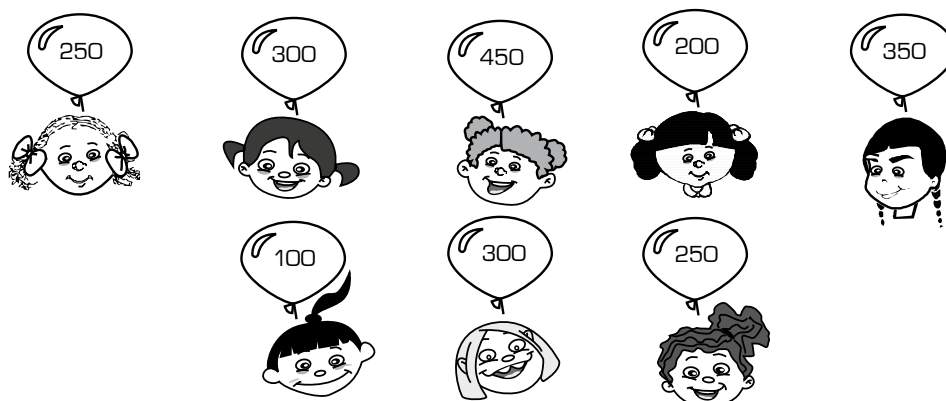
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Valle del Cauca	9.3%	52.2%	8.6%	26.9%	2.9%	7121
Valledupar	9.1%	52.8%	9.4%	23.4%	5.3%	3871
Vaupés	12.9%	41.9%	14.3%	24.0%	6.9%	217
Vichada	11.1%	47.8%	12.1%	27.0%	2.1%	289
Villavicencio	8.8%	59.5%	7.3%	22.4%	1.9%	4134
Yopal	8.3%	55.6%	7.3%	26.7%	2.2%	1333
Zipaquirá	8.2%	63.2%	5.6%	21.6%	1.4%	930
Colombia	9.7%	53.3%	9.4%	24.6%	3.0%	370357

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 12.

Al finalizar un juego, Carolina registró el puntaje obtenido por cada una de sus amigas. Obsérvalos.



Luego, ordenó de mayor a menor los puntajes obtenidos y elaboró una lista. Esta es:

- A. 450, 350, 300, 300, 250, 250, 200, 100
- B. 450, 350, 300, 250, 200
- C. 250, 300, 450, 200, 350, 100, 300, 250
- D. 250, 300, 450, 200, 350, 100

• Estructura

Competencia	Comunicación
Componente	Aleatorio
Afirmación	Clasificar y ordenar datos.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	A

• Resultados a nivel nacional y de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Amazonas	36.2%	16.6%	29.7%	13.4%	4.1%	733
Antioquia	47.8%	12.9%	25.7%	9.4%	4.1%	22710
Apartadó	44.7%	14.5%	27.5%	9.7%	3.6%	1328
Arauca	49.2%	12.7%	26.8%	8.5%	2.8%	2080
Armenia	50.5%	14.1%	24.0%	8.3%	3.1%	1862
Atlántico	46.0%	14.2%	25.1%	10.1%	4.7%	4345
Barrancabermeja	53.8%	12.4%	24.3%	7.5%	2.1%	1916

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Barranquilla	52.3%	12.5%	23.3%	9.0%	2.9%	8962
Bello	51.9%	11.9%	25.2%	8.2%	2.8%	3019
Bogotá, D.C.	61.6%	9.7%	19.7%	6.8%	2.2%	46463
Bolívar	37.2%	16.9%	27.3%	13.2%	5.4%	8514
Boyacá	49.2%	11.9%	26.4%	9.5%	2.9%	6397
Bucaramanga	62.8%	9.2%	18.5%	7.5%	2.1%	3879
Buenaventura	49.8%	12.9%	23.1%	10.0%	4.1%	3026
Buga	54.0%	11.9%	23.7%	7.3%	3.1%	900
Caldas	51.4%	13.5%	23.9%	8.3%	2.9%	4445
Cali	55.7%	11.3%	21.2%	8.3%	3.4%	14708
Caquetá	47.0%	13.6%	26.5%	9.9%	3.1%	2686
Cartagena	51.9%	12.9%	22.3%	8.9%	4.0%	8260
Cartago	53.1%	12.3%	24.6%	7.1%	3.0%	879
Casanare	45.5%	14.4%	27.8%	10.1%	2.3%	2277
Cauca	50.4%	14.5%	21.2%	8.7%	5.1%	9876
Cesar	46.6%	15.4%	23.7%	11.0%	3.3%	6702
Chocó	43.2%	14.9%	24.5%	11.0%	6.3%	3512
Chía	64.9%	8.1%	18.6%	7.6%	0.8%	840
Ciénaga	45.9%	14.7%	26.3%	9.1%	4.1%	1092
Cundinamarca	54.8%	11.1%	23.5%	8.1%	2.5%	11716
Córdoba	43.5%	14.8%	26.3%	12.1%	3.4%	10476
Cúcuta	55.0%	11.9%	24.1%	7.6%	1.4%	5703
Dosquebradas	56.8%	10.7%	21.2%	8.8%	2.5%	1286
Duitama	67.5%	8.1%	17.5%	5.6%	1.3%	855
Envigado	67.6%	8.7%	16.6%	5.6%	1.6%	1027
Facatativá	57.4%	10.4%	22.2%	8.3%	1.8%	1023
Florencia	44.9%	13.3%	29.5%	10.3%	2.0%	1537
Floridablanca	69.1%	7.4%	15.8%	6.4%	1.4%	1949
Fusagasugá	55.1%	10.3%	25.3%	7.3%	2.0%	1011
Girardot	46.5%	10.6%	29.9%	10.3%	2.7%	708
Girón	51.3%	13.4%	23.7%	9.2%	2.4%	1067
Guainía	36.9%	12.9%	33.5%	9.0%	7.7%	442
Guaviare	38.2%	13.3%	31.7%	13.1%	3.7%	757
Huila	47.6%	13.6%	27.7%	9.4%	1.6%	6157
Ibagué	57.2%	10.2%	23.5%	7.4%	1.8%	3950
Ipiales	54.9%	10.7%	26.5%	6.2%	1.7%	985
Itagüí	50.9%	11.9%	27.6%	7.4%	2.1%	1416
Jamundí	46.2%	14.9%	25.2%	10.1%	3.6%	933
La Guajira	45.4%	16.2%	22.0%	11.3%	5.0%	3214
Lorica	41.7%	17.4%	28.2%	10.0%	2.7%	1078

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Magangué	36.9%	15.6%	30.2%	12.3%	5.1%	1202
Magdalena	44.4%	15.4%	23.9%	10.6%	5.8%	7253
Maicao	42.8%	14.8%	26.7%	12.5%	3.2%	1796
Malambo	52.9%	11.5%	25.0%	7.5%	3.1%	989
Manizales	57.3%	12.8%	20.3%	7.6%	2.0%	2286
Medellín	52.1%	11.4%	24.3%	8.9%	3.3%	14976
Meta	46.2%	12.1%	28.6%	9.9%	3.3%	4172
Montería	45.7%	15.1%	26.6%	10.3%	2.3%	3969
Mosquera	60.2%	9.2%	22.4%	6.3%	1.9%	839
Nariño	55.2%	13.9%	20.2%	7.8%	3.0%	7529
Neiva	50.2%	12.1%	26.3%	9.3%	2.1%	2771
Norte de Santander	55.1%	11.5%	23.5%	7.8%	2.0%	6054
Palmira	58.3%	10.3%	21.5%	7.6%	2.3%	2203
Pasto	59.8%	10.1%	21.3%	6.9%	1.9%	3215
Pereira	55.7%	10.6%	22.2%	8.4%	3.1%	3082
Piedecuesta	57.9%	10.9%	23.2%	6.9%	1.1%	1129
Pitalito	46.2%	12.4%	31.5%	8.4%	1.5%	1238
Popayán	57.5%	11.7%	21.3%	6.5%	3.0%	2066
Putumayo	44.7%	14.4%	27.0%	10.5%	3.5%	3016
Quibdó	51.1%	16.6%	21.4%	7.3%	3.5%	1228
Quindío	50.1%	12.1%	25.2%	9.1%	3.6%	1758
Riohacha	45.3%	14.8%	26.5%	9.0%	4.4%	2233
Rionegro	59.3%	11.3%	20.6%	7.6%	1.2%	826
Risaralda	51.3%	13.5%	24.8%	8.5%	2.0%	2150
Sabaneta	53.1%	11.7%	19.5%	7.5%	8.3%	375
Sahagún	41.9%	15.2%	31.3%	11.0%	0.7%	995
San Andrés	42.5%	12.1%	26.0%	14.7%	4.7%	381
Santa Marta	50.2%	12.4%	24.8%	9.0%	3.5%	4034
Santander	56.8%	11.2%	22.2%	8.0%	1.8%	6390
Sincelejo	50.8%	12.3%	25.4%	8.7%	2.8%	2280
Soacha	57.1%	9.9%	23.3%	7.8%	1.9%	3891
Sogamoso	61.2%	8.8%	21.1%	6.4%	2.4%	1104
Soledad	58.5%	12.1%	20.5%	6.9%	2.1%	4112
Sucre	41.2%	14.9%	28.4%	11.9%	3.6%	6218
Tolima	46.1%	13.4%	27.5%	10.3%	2.7%	7811
Tuluá	55.2%	10.1%	26.0%	6.8%	2.0%	1698
Tumaco	38.9%	17.1%	24.0%	11.7%	8.3%	2161
Tunja	63.6%	10.4%	17.8%	7.0%	1.1%	1245
Turbo	37.2%	15.9%	28.7%	12.3%	5.9%	1580
Uribe	35.5%	20.1%	24.7%	13.0%	6.7%	1506

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Valle del Cauca	48.2%	11.9%	28.2%	9.0%	2.8%	7121
Valledupar	51.1%	12.4%	22.9%	7.8%	5.8%	3871
Vaupés	36.9%	14.7%	33.2%	10.1%	5.1%	217
Vichada	40.5%	10.4%	34.9%	12.1%	2.1%	289
Villavicencio	56.7%	10.5%	23.1%	7.8%	1.8%	4134
Yopal	54.5%	10.4%	24.9%	7.7%	2.6%	1333
Zipaquirá	63.7%	10.3%	17.2%	7.5%	1.3%	930
Colombia	51.8%	12.4%	23.7%	8.9%	3.1%	370357

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.



- **Pregunta 13.**

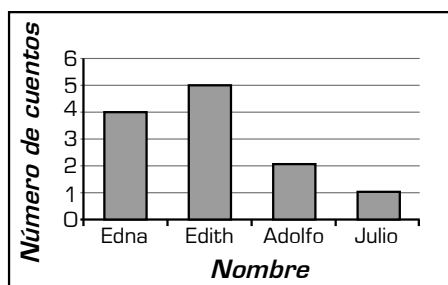
En la tabla se muestra la cantidad de cuentos que leyeron Edna, Edith, Adolfo y Julio, en una semana.

Nombre	Número de cuentos
Edna	4
Edith	5
Adolfo	2
Julio	1

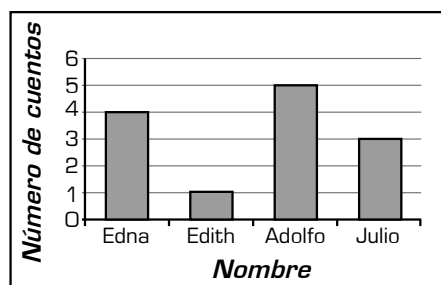
Tabla

¿Cuál de las siguientes gráficas representa la información de la tabla?

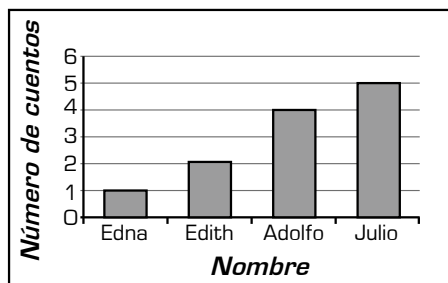
A.



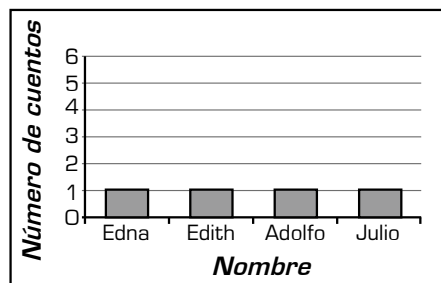
B.



C.



D.



- **Estructura**

Competencia	Comunicación
Componente	Aleatorio
Afirmación	Representar un conjunto de datos a partir de un diagrama de barras e interpretar lo que un diagrama de barras determinado representa.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	A

• Resultados a nivel nacional y de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	50.5%	15.3%	20.5%	10.1%	3.7%	733
Antioquia	63.5%	11.4%	13.8%	7.5%	3.7%	22710
Apartadó	63.9%	12.5%	12.7%	7.9%	3.1%	1328
Arauca	66.5%	10.2%	14.0%	6.9%	2.4%	2080
Armenia	70.7%	9.3%	12.0%	5.2%	2.7%	1862
Atlántico	62.3%	12.2%	13.8%	8.1%	3.7%	4345
Barrancabermeja	71.6%	8.7%	13.0%	5.3%	1.4%	1916
Barranquilla	69.5%	9.9%	12.4%	6.0%	2.3%	8962
Bello	75.0%	7.2%	10.9%	4.6%	2.3%	3019
Bogotá, D.C.	80.2%	5.4%	8.8%	3.4%	2.2%	46463
Bolívar	50.6%	17.2%	16.8%	11.1%	4.4%	8514
Boyacá	68.2%	10.5%	12.1%	6.7%	2.6%	6397
Bucaramanga	79.1%	5.9%	9.2%	3.9%	2.0%	3879
Buenaventura	64.0%	13.2%	13.5%	6.6%	2.8%	3026
Buga	70.9%	9.1%	11.4%	6.2%	2.3%	900
Caldas	67.0%	9.7%	13.8%	6.9%	2.7%	4445
Cali	74.3%	7.4%	10.8%	4.4%	3.1%	14708
Caquetá	57.7%	14.0%	15.9%	9.5%	2.9%	2686
Cartagena	68.6%	9.2%	11.9%	6.7%	3.6%	8260
Cartago	72.8%	7.7%	12.5%	4.4%	2.5%	879
Casanare	63.8%	11.6%	15.3%	7.2%	2.1%	2277
Cauca	62.4%	12.0%	13.0%	8.0%	4.6%	9876
Cesar	63.0%	12.5%	12.8%	8.7%	3.0%	6702
Chocó	51.7%	16.9%	13.4%	12.5%	5.4%	3512
Chía	81.5%	5.0%	9.8%	3.0%	0.7%	840
Ciénaga	56.8%	15.0%	16.3%	8.7%	3.2%	1092
Cundinamarca	74.4%	7.8%	10.4%	5.1%	2.3%	11716
Córdoba	56.5%	15.3%	15.5%	9.8%	2.9%	10476
Cúcuta	72.8%	8.8%	12.4%	4.7%	1.3%	5703
Dosquebradas	73.6%	7.8%	11.7%	4.7%	2.1%	1286
Duitama	84.2%	5.7%	7.0%	2.1%	0.9%	855
Envigado	82.9%	4.5%	8.6%	2.5%	1.6%	1027
Facatativá	77.9%	8.3%	8.5%	3.9%	1.4%	1023
Florencia	65.7%	12.5%	13.5%	6.8%	1.5%	1537
Floridablanca	83.1%	5.3%	6.6%	3.5%	1.5%	1949
Fusagasugá	77.1%	6.4%	11.2%	4.0%	1.4%	1011
Girardot	71.6%	9.3%	13.7%	4.0%	1.4%	708
Girón	73.2%	8.6%	10.8%	5.6%	1.8%	1067
Guainía	51.8%	12.9%	18.8%	10.0%	6.6%	442

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Guaviare	54.6%	14.8%	18.1%	9.0%	3.6%	757
Huila	67.3%	11.5%	12.7%	7.0%	1.5%	6157
Ibagué	76.5%	7.4%	10.4%	4.3%	1.4%	3950
Ipiales	76.8%	7.6%	10.2%	4.0%	1.5%	985
Itagüí	74.6%	10.2%	9.9%	3.6%	1.7%	1416
Jamundí	66.3%	8.3%	16.0%	7.0%	2.5%	933
La Guajira	55.7%	13.4%	15.0%	11.4%	4.5%	3214
Lorica	55.2%	18.3%	14.0%	10.4%	2.1%	1078
Magangué	50.0%	17.0%	17.2%	11.1%	4.7%	1202
Magdalena	56.4%	14.3%	14.8%	10.0%	4.6%	7253
Maicao	56.8%	13.9%	15.7%	11.2%	2.3%	1796
Malambo	68.4%	11.3%	11.5%	6.1%	2.7%	989
Manizales	75.0%	7.5%	11.3%	4.2%	1.9%	2286
Medellín	71.7%	8.1%	12.3%	5.0%	3.0%	14976
Meta	62.9%	11.6%	14.8%	7.6%	3.1%	4172
Montería	61.7%	12.8%	15.2%	8.8%	1.6%	3969
Mosquera	80.2%	5.5%	9.2%	3.0%	2.1%	839
Nariño	69.1%	9.0%	13.1%	6.2%	2.6%	7529
Neiva	70.0%	10.0%	12.7%	5.6%	1.7%	2771
Norte de Santander	71.0%	8.9%	12.3%	6.1%	1.8%	6054
Palmira	77.3%	7.0%	9.5%	4.4%	1.9%	2203
Pasto	77.4%	7.1%	10.3%	3.7%	1.6%	3215
Pereira	73.7%	6.3%	11.8%	5.3%	2.9%	3082
Piedecuesta	75.7%	6.8%	10.9%	4.9%	1.7%	1129
Pitalito	69.3%	11.2%	12.1%	6.4%	1.0%	1238
Popayán	76.3%	7.2%	9.0%	4.9%	2.6%	2066
Putumayo	61.9%	12.5%	14.4%	8.1%	3.1%	3016
Quibdó	64.3%	12.1%	13.8%	6.7%	3.2%	1228
Quindío	64.6%	10.6%	14.5%	6.6%	3.7%	1758
Riohacha	60.1%	14.1%	13.8%	8.5%	3.6%	2233
Rionegro	77.0%	6.2%	11.5%	3.8%	1.6%	826
Risaralda	65.6%	10.4%	14.2%	7.7%	2.0%	2150
Sabaneta	71.7%	7.7%	9.9%	3.2%	7.5%	375
Sahagún	61.3%	15.6%	15.0%	7.6%	0.5%	995
San Andrés	64.0%	11.8%	13.9%	5.5%	4.7%	381
Santa Marta	65.6%	11.1%	13.0%	7.3%	3.0%	4034
Santander	73.5%	9.1%	10.5%	5.6%	1.4%	6390
Sincelejo	66.1%	11.8%	12.9%	7.3%	1.9%	2280
Soacha	78.1%	6.0%	10.0%	4.0%	1.9%	3891
Sogamoso	78.3%	5.8%	8.7%	5.0%	2.3%	1104

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Soledad	74.2%	8.3%	10.7%	5.0%	1.8%	4112
Sucre	53.1%	16.2%	16.9%	10.8%	3.0%	6218
Tolima	65.1%	12.0%	13.3%	7.3%	2.4%	7811
Tuluá	74.0%	8.4%	11.4%	4.7%	1.5%	1698
Tumaco	52.1%	15.2%	15.6%	10.5%	6.7%	2161
Tunja	83.2%	5.1%	7.1%	3.5%	1.1%	1245
Turbo	49.4%	16.3%	17.0%	12.3%	5.1%	1580
Uribe	46.8%	15.7%	17.3%	14.4%	5.8%	1506
Valle del Cauca	67.6%	10.5%	12.9%	6.3%	2.7%	7121
Valledupar	65.8%	9.9%	11.8%	7.7%	4.8%	3871
Vaupés	39.6%	21.2%	17.1%	18.0%	4.1%	217
Vichada	56.1%	17.3%	16.6%	8.3%	1.7%	289
Villavicencio	78.3%	7.2%	9.5%	3.5%	1.5%	4134
Yopal	71.6%	8.9%	12.0%	4.5%	2.9%	1333
Zipaquirá	76.1%	6.1%	11.2%	5.6%	1.0%	930
Colombia	68.7%	9.9%	12.3%	6.4%	2.7%	370357



*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

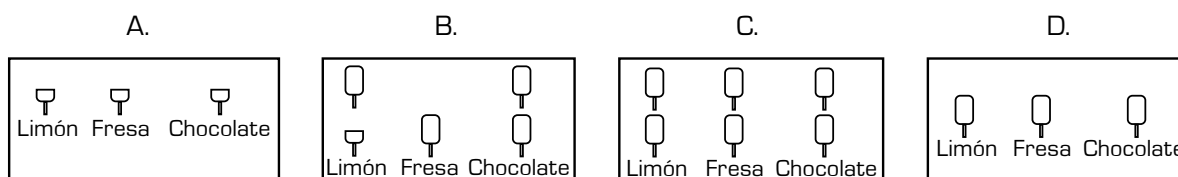


• Pregunta 14.

Observa la cantidad de paletas, según el sabor, que se vendió en una heladería.

Sabor	Cantidad
Limón	15
Fresa	10
Chocolate	20

si  representa 10 paletas y  representa 5 paletas, ¿Cuál gráfica muestra la cantidad de paletas vendidas según el sabor?



• Estructura

Competencia	Comunicación
Componente	Aleatorio
Afirmación	Representar un conjunto de datos a partir de un diagrama de barras e interpretar lo que un diagrama de barras determinado representa.
Nivel de desempeño	Avanzado
Respuesta Correcta	B

• Resultados a nivel nacional y de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Amazonas	12.1%	32.2%	40.0%	12.4%	3.3%	733
Antioquia	10.4%	43.9%	31.7%	9.6%	4.4%	22710
Apartadó	12.7%	40.6%	31.0%	11.7%	3.9%	1328
Arauca	10.7%	47.6%	29.5%	9.6%	2.5%	2080
Armenia	9.2%	48.7%	28.1%	10.5%	3.4%	1862
Atlántico	10.2%	45.2%	30.4%	9.6%	4.6%	4345
Barrancabermeja	9.8%	51.3%	26.4%	11.0%	1.7%	1916
Barranquilla	9.8%	50.0%	27.1%	10.2%	2.8%	8962
Bello	9.9%	52.1%	24.6%	10.4%	3.0%	3019

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Bogotá, D.C.	7.9%	58.3%	21.5%	9.7%	2.6%	46463
Bolívar	12.2%	36.7%	34.2%	11.5%	5.3%	8514
Boyacá	10.1%	46.7%	30.7%	9.7%	2.8%	6397
Bucaramanga	7.5%	57.4%	22.8%	9.7%	2.6%	3879
Buenaventura	11.6%	46.7%	29.7%	8.5%	3.6%	3026
Buga	8.3%	49.2%	27.7%	12.1%	2.7%	900
Caldas	9.5%	45.5%	32.4%	9.3%	3.4%	4445
Cali	9.7%	52.1%	24.2%	10.2%	3.8%	14708
Caquetá	10.9%	41.0%	35.8%	8.9%	3.5%	2686
Cartagena	10.0%	49.3%	26.9%	9.5%	4.3%	8260
Cartago	8.4%	53.4%	24.3%	10.9%	3.0%	879
Casanare	8.5%	42.6%	36.0%	10.1%	2.8%	2277
Cauca	10.0%	43.7%	32.4%	8.8%	5.1%	9876
Cesar	11.0%	45.9%	30.2%	9.1%	3.8%	6702
Chocó	13.2%	34.7%	35.4%	10.4%	6.2%	3512
Chía	7.3%	59.4%	21.7%	10.5%	1.2%	840
Ciénaga	10.7%	43.2%	30.4%	11.5%	4.1%	1092
Cundinamarca	9.0%	52.3%	26.5%	9.6%	2.7%	11716
Córdoba	11.7%	39.1%	35.5%	10.1%	3.6%	10476
Cúcuta	9.2%	50.2%	27.5%	11.0%	2.0%	5703
Dosquebradas	10.0%	48.4%	27.6%	11.2%	2.8%	1286
Duitama	5.7%	64.7%	19.8%	8.9%	0.9%	855
Envigado	8.6%	64.1%	16.7%	8.9%	1.9%	1027
Facatativá	9.0%	54.3%	25.0%	9.6%	2.2%	1023
Florencia	11.2%	44.8%	31.9%	9.9%	2.2%	1537
Floridablanca	7.3%	60.3%	21.4%	9.6%	1.4%	1949
Fusagasugá	9.9%	50.4%	27.3%	10.2%	2.2%	1011
Girardot	11.3%	49.0%	24.6%	13.0%	2.1%	708
Girón	8.6%	48.2%	29.5%	10.9%	2.8%	1067
Guainía	10.4%	34.8%	36.4%	11.3%	7.0%	442
Guaviare	11.4%	38.2%	32.8%	13.6%	4.1%	757
Huila	9.6%	47.4%	31.8%	9.3%	2.0%	6157
Ibagué	8.3%	53.6%	25.6%	10.6%	1.9%	3950
Ipiales	10.3%	49.1%	27.9%	10.8%	1.9%	985
Itagüí	10.9%	53.1%	23.8%	10.2%	2.0%	1416
Jamundí	10.6%	43.5%	32.2%	11.0%	2.7%	933
La Guajira	11.1%	42.6%	31.5%	9.7%	5.0%	3214
Lorica	13.7%	39.2%	33.6%	10.1%	3.3%	1078
Magangué	11.3%	37.1%	32.7%	13.9%	5.0%	1202
Magdalena	12.0%	42.5%	31.4%	8.9%	5.1%	7253

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Maicao	10.2%	40.9%	34.2%	11.3%	3.3%	1796
Malambo	7.5%	51.9%	27.5%	10.0%	3.1%	989
Manizales	9.9%	51.2%	25.8%	10.6%	2.5%	2286
Medellín	9.8%	48.9%	26.7%	10.8%	3.8%	14976
Meta	10.4%	42.4%	34.5%	9.3%	3.4%	4172
Montería	11.1%	43.4%	32.0%	11.0%	2.4%	3969
Mosquera	7.6%	52.8%	26.6%	10.5%	2.5%	839
Nariño	10.0%	48.9%	29.4%	8.5%	3.1%	7529
Neiva	10.1%	45.6%	29.8%	12.1%	2.4%	2771
Norte de Santander	10.3%	48.9%	29.1%	9.6%	2.1%	6054
Palmira	9.3%	52.6%	25.3%	10.4%	2.5%	2203
Pasto	10.1%	52.1%	25.3%	10.2%	2.3%	3215
Pereira	9.6%	49.0%	28.3%	9.6%	3.5%	3082
Piedecuesta	9.6%	54.8%	23.6%	9.7%	2.3%	1129
Pitalito	9.2%	45.9%	32.6%	10.8%	1.5%	1238
Popayán	9.9%	52.6%	25.8%	8.9%	2.9%	2066
Putumayo	10.8%	41.8%	33.3%	10.2%	3.8%	3016
Quibdó	9.6%	48.3%	28.4%	10.3%	3.3%	1228
Quindío	9.6%	45.5%	30.4%	10.5%	4.0%	1758
Riohacha	10.4%	43.9%	30.4%	10.8%	4.5%	2233
Rionegro	7.9%	53.0%	25.1%	12.1%	1.9%	826
Risaralda	11.2%	46.0%	30.6%	10.2%	2.0%	2150
Sabaneta	8.5%	57.6%	17.9%	7.7%	8.3%	375
Sahagún	10.1%	43.2%	34.1%	11.5%	1.2%	995
San Andrés	13.9%	40.9%	28.3%	13.1%	3.7%	381
Santa Marta	10.8%	46.0%	29.1%	10.5%	3.5%	4034
Santander	9.5%	51.5%	28.1%	9.0%	1.9%	6390
Sincelejo	11.8%	47.2%	29.0%	9.6%	2.4%	2280
Soacha	8.4%	53.8%	24.4%	10.7%	2.6%	3891
Sogamoso	9.1%	57.4%	23.1%	8.0%	2.4%	1104
Soledad	8.8%	54.1%	25.3%	9.6%	2.2%	4112
Sucre	12.8%	37.6%	35.3%	10.8%	3.4%	6218
Tolima	10.2%	44.5%	32.6%	9.8%	2.9%	7811
Tuluá	10.1%	50.1%	26.3%	11.4%	2.0%	1698
Tumaco	12.3%	39.3%	31.7%	8.7%	8.1%	2161
Tunja	6.7%	61.8%	19.4%	10.9%	1.2%	1245
Turbo	12.9%	35.1%	36.2%	9.7%	6.1%	1580
Uribe	11.4%	38.8%	33.9%	9.6%	6.2%	1506
Valle del Cauca	10.7%	45.0%	30.5%	10.7%	3.1%	7121
Valledupar	8.2%	48.5%	27.7%	10.1%	5.5%	3871

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Vaupés	11.1%	24.0%	48.8%	10.1%	6.0%	217
Vichada	11.4%	38.8%	34.9%	12.8%	2.1%	289
Villavicencio	9.5%	55.6%	23.8%	9.1%	2.1%	4134
Yopal	9.5%	47.9%	28.7%	10.5%	3.5%	1333
Zipaquirá	7.1%	53.9%	26.2%	11.5%	1.3%	930
Colombia	9.9%	48.4%	28.4%	10.0%	3.3%	370357

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.



- Pregunta 15.**

Laura, Andrés, Camilo y Viviana jugaron baloncesto. Cada vez que alguno encestabá, escribía su nombre, así:

Camilo, Camilo, Camilo, Camilo, Camilo, Laura, Laura, Laura, Andrés, Viviana

¿Quiénes encestaron más?

- A. Camilo y Laura.
- B. Laura y Andrés.
- C. Andrés y Viviana.
- D. Viviana y Camilo.

- Estructura**

Competencia	Resolución
Componente	Aleatorio
Afirmación	Resolver problemas a partir del análisis de datos recolectados.
Nivel de desempeño	Mínimo
Respuesta Correcta	A

- Resultados a nivel nacional y de Entidad Territorial certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Amazonas	57.4%	14.5%	13.0%	10.2%	4.9%	733
Antioquia	71.3%	9.1%	8.4%	6.6%	4.4%	22710
Apartadó	64.8%	11.8%	11.9%	8.2%	3.2%	1328
Arauca	73.9%	10.1%	7.3%	5.7%	2.9%	2080
Armenia	77.2%	7.7%	6.8%	5.0%	3.3%	1862
Atlántico	65.6%	11.6%	10.6%	7.7%	4.5%	4345
Barrancabermeja	76.9%	7.6%	7.7%	5.6%	2.2%	1916
Barranquilla	75.4%	8.4%	7.6%	5.5%	3.1%	8962
Bello	80.1%	6.6%	6.8%	3.6%	2.9%	3019
Bogotá, D.C.	84.6%	5.1%	4.6%	2.9%	2.7%	46463
Bolívar	53.8%	14.8%	14.5%	11.0%	5.9%	8514
Boyacá	74.3%	8.3%	8.1%	6.3%	3.1%	6397
Bucaramanga	83.8%	5.7%	4.7%	3.0%	2.9%	3879
Buenaventura	71.9%	10.2%	7.9%	6.1%	3.8%	3026
Buga	80.0%	5.7%	5.7%	5.7%	3.0%	900

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Caldas	76.6%	6.6%	7.0%	6.3%	3.5%	4445
Cali	80.1%	6.4%	5.8%	3.8%	3.9%	14708
Caquetá	70.4%	10.7%	7.9%	7.6%	3.5%	2686
Cartagena	71.6%	8.9%	9.1%	6.0%	4.4%	8260
Cartago	81.3%	5.2%	5.5%	4.9%	3.1%	879
Casanare	75.5%	8.3%	7.0%	5.8%	3.5%	2277
Cauca	70.1%	9.0%	8.5%	6.9%	5.5%	9876
Cesar	66.8%	10.9%	10.7%	7.7%	4.0%	6702
Chocó	57.1%	12.0%	13.5%	11.5%	5.9%	3512
Chía	87.7%	4.4%	4.3%	2.6%	1.0%	840
Ciénaga	65.1%	11.5%	12.5%	7.5%	3.4%	1092
Cundinamarca	78.9%	7.2%	6.3%	4.6%	2.9%	11716
Córdoba	61.4%	12.2%	12.3%	10.2%	3.8%	10476
Cúcuta	78.5%	7.5%	6.8%	5.2%	2.0%	5703
Dosquebradas	81.6%	6.8%	4.9%	4.1%	2.6%	1286
Duitama	87.6%	4.2%	4.3%	2.7%	1.2%	855
Envigado	85.9%	5.6%	3.9%	2.8%	1.9%	1027
Facatativá	80.0%	6.5%	6.4%	5.0%	2.2%	1023
Florencia	68.4%	11.3%	10.1%	7.5%	2.7%	1537
Floridablanca	86.5%	4.7%	4.9%	2.0%	1.9%	1949
Fusagasugá	83.5%	5.1%	5.7%	3.6%	2.1%	1011
Girardot	75.4%	9.0%	8.3%	5.2%	2.0%	708
Girón	77.0%	8.1%	7.5%	4.5%	2.9%	1067
Guainía	59.7%	10.6%	11.5%	10.4%	7.7%	442
Guaviare	69.5%	10.2%	7.7%	7.9%	4.8%	757
Huila	74.8%	8.4%	8.5%	6.4%	1.9%	6157
Ibagué	80.9%	7.1%	6.0%	4.0%	1.9%	3950
Ipiales	80.1%	7.4%	5.1%	5.8%	1.6%	985
Itagüí	73.4%	11.2%	7.7%	5.5%	2.2%	1416
Jamundí	74.8%	7.7%	8.1%	6.3%	3.0%	933
La Guajira	59.5%	13.9%	12.5%	8.5%	5.6%	3214
Lorica	60.1%	12.2%	13.2%	10.9%	3.7%	1078
Magangué	57.2%	14.1%	14.1%	9.8%	4.9%	1202
Magdalena	59.2%	12.3%	12.6%	9.9%	6.1%	7253
Maicao	62.5%	12.2%	13.4%	8.9%	3.1%	1796
Malambo	72.2%	10.1%	8.2%	6.5%	3.0%	989
Manizales	82.5%	5.5%	5.6%	3.7%	2.7%	2286
Medellín	77.3%	7.5%	7.0%	4.4%	3.8%	14976
Meta	71.8%	9.7%	8.8%	5.9%	3.8%	4172
Montería	67.8%	11.4%	10.1%	8.3%	2.4%	3969

Continúa en la siguiente página

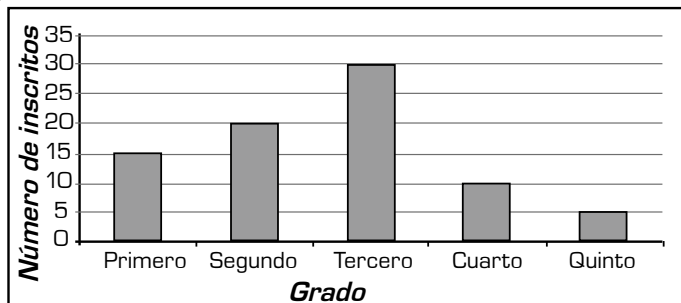


ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Mosquera	86.4%	4.5%	3.6%	2.9%	2.6%	839
Nariño	76.8%	7.6%	7.3%	5.3%	3.0%	7529
Neiva	75.6%	8.8%	8.3%	5.0%	2.2%	2771
Norte de Santander	77.4%	7.7%	7.4%	5.4%	2.0%	6054
Palmira	81.1%	6.3%	6.0%	4.1%	2.5%	2203
Pasto	83.0%	5.8%	5.8%	3.2%	2.2%	3215
Pereira	82.7%	5.3%	5.0%	3.7%	3.4%	3082
Piedecuesta	79.5%	6.6%	7.1%	4.6%	2.1%	1129
Pitalito	75.9%	9.4%	8.0%	5.4%	1.3%	1238
Popayán	81.8%	6.2%	5.5%	3.3%	3.1%	2066
Putumayo	69.1%	9.9%	9.7%	7.6%	3.7%	3016
Quibdó	70.5%	9.9%	9.4%	7.6%	2.5%	1228
Quindío	74.0%	8.2%	6.9%	6.8%	4.1%	1758
Riohacha	65.2%	11.6%	10.7%	8.0%	4.6%	2233
Rionegro	82.4%	6.5%	5.2%	4.0%	1.8%	826
Risaralda	75.4%	9.1%	7.5%	6.1%	1.9%	2150
Sabaneta	74.1%	9.9%	4.5%	3.7%	7.7%	375
Sahagún	68.0%	10.2%	9.9%	10.1%	1.8%	995
San Andrés	57.5%	14.4%	15.2%	8.1%	4.7%	381
Santa Marta	73.1%	9.0%	8.2%	5.7%	4.0%	4034
Santander	78.6%	7.1%	6.9%	5.5%	1.8%	6390
Sincelejo	70.9%	10.1%	8.7%	7.3%	3.0%	2280
Soacha	82.1%	6.1%	5.4%	3.7%	2.7%	3891
Sogamoso	81.5%	5.6%	6.3%	4.1%	2.5%	1104
Soledad	80.0%	7.4%	6.0%	4.2%	2.3%	4112
Sucre	59.0%	13.7%	12.1%	11.2%	4.0%	6218
Tolima	70.5%	10.2%	9.1%	7.0%	3.1%	7811
Tuluá	81.3%	6.5%	5.8%	4.1%	2.4%	1698
Tumaco	52.0%	13.5%	14.5%	11.8%	8.2%	2161
Tunja	83.7%	5.6%	5.9%	3.5%	1.3%	1245
Turbo	52.6%	15.2%	12.9%	13.0%	6.3%	1580
Uribe	47.7%	17.0%	19.3%	10.1%	5.9%	1506
Valle del Cauca	75.8%	7.9%	7.5%	5.5%	3.3%	7121
Valledupar	73.5%	7.9%	7.3%	5.6%	5.7%	3871
Vaupés	50.2%	16.1%	14.3%	12.9%	6.5%	217
Vichada	67.1%	9.7%	12.8%	8.0%	2.4%	289
Villavicencio	81.3%	6.7%	6.6%	3.5%	1.9%	4134
Yopal	77.3%	7.7%	6.2%	4.7%	4.1%	1333
Zipaquirá	85.2%	5.5%	4.4%	3.7%	1.3%	930
Colombia	74.3%	8.5%	7.9%	5.9%	3.5%	370357

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• **Pregunta 16.**

La cantidad de estudiantes inscritos, de los grados primero a quinto, en un curso de pintura se muestra en la gráfica.



Gráfica

¿En qué grados hubo más inscritos?

- A. Primero y segundo.
- B. Segundo y tercero.
- C. Tercero y cuarto.
- D. Cuarto y quinto.

• **Estructura**

Competencia	Resolución
Componente	Aleatorio
Afirmación	Resolver problemas a partir del análisis de datos recolectados.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	B

• **Resultados a nivel nacional y de Entidad Territorial certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	11.3%	50.9%	18.3%	15.0%	4.5%	733
Antioquia	8.1%	62.9%	14.3%	10.1%	4.6%	22710
Apartadó	10.3%	59.9%	14.0%	11.9%	3.8%	1328
Arauca	6.7%	66.9%	13.8%	10.0%	2.7%	2080
Armenia	7.4%	72.7%	9.7%	6.8%	3.4%	1862
Atlántico	9.6%	57.9%	16.7%	11.1%	4.7%	4345
Barrancabermeja	7.2%	70.1%	11.6%	8.4%	2.7%	1916
Barranquilla	8.1%	68.8%	12.2%	7.6%	3.4%	8962
Bello	7.3%	73.9%	9.9%	5.5%	3.3%	3019

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Bogotá, D.C.	5.2%	79.8%	7.5%	4.5%	2.9%	46463
Bolívar	11.6%	46.5%	19.8%	16.2%	5.9%	8514
Boyacá	6.7%	69.1%	13.0%	8.0%	3.2%	6397
Bucaramanga	5.8%	79.1%	7.7%	4.6%	2.8%	3879
Buenaventura	9.3%	62.4%	14.1%	10.2%	4.0%	3026
Buga	6.7%	75.0%	9.8%	5.4%	3.1%	900
Caldas	6.5%	68.8%	12.3%	8.7%	3.6%	4445
Cali	6.6%	74.6%	8.9%	5.9%	4.0%	14708
Caquetá	8.6%	58.7%	17.4%	11.7%	3.6%	2686
Cartagena	9.0%	65.6%	12.3%	8.4%	4.7%	8260
Cartago	6.8%	74.1%	9.4%	6.5%	3.2%	879
Casanare	7.7%	68.0%	12.5%	8.5%	3.3%	2277
Cauca	7.7%	62.0%	14.6%	10.1%	5.6%	9876
Cesar	9.4%	59.9%	15.0%	11.8%	3.9%	6702
Chocó	10.8%	48.7%	18.6%	15.5%	6.4%	3512
Chía	4.2%	83.6%	7.5%	3.5%	1.3%	840
Ciénaga	10.1%	57.0%	15.8%	12.7%	4.4%	1092
Cundinamarca	5.8%	74.1%	10.9%	6.4%	2.9%	11716
Córdoba	10.2%	54.7%	17.1%	14.2%	3.9%	10476
Cúcuta	7.2%	72.2%	10.9%	7.3%	2.3%	5703
Dosquebradas	5.3%	75.7%	10.0%	6.1%	2.9%	1286
Duitama	4.6%	84.2%	6.9%	3.2%	1.2%	855
Envigado	4.6%	83.1%	6.7%	3.5%	2.1%	1027
Facatativá	5.8%	76.7%	9.2%	6.0%	2.3%	1023
Florencia	8.9%	64.2%	14.4%	10.5%	2.0%	1537
Floridablanca	3.6%	82.7%	7.2%	4.6%	1.8%	1949
Fusagasugá	6.0%	77.2%	10.2%	4.1%	2.6%	1011
Girardot	7.9%	67.4%	12.4%	9.3%	3.0%	708
Girón	6.7%	73.1%	10.4%	6.9%	2.8%	1067
Guainía	9.5%	53.6%	16.7%	12.7%	7.5%	442
Guaviare	9.8%	53.0%	19.6%	14.0%	3.7%	757
Huila	6.5%	67.9%	13.6%	10.1%	1.9%	6157
Ibagué	6.3%	75.1%	10.6%	6.2%	1.9%	3950
Ipiales	6.7%	74.9%	10.1%	6.6%	1.7%	985
Itagüí	9.7%	69.7%	11.4%	6.9%	2.3%	1416
Jamundí	7.7%	66.0%	12.2%	10.3%	3.8%	933
La Guajira	10.8%	52.4%	16.5%	14.8%	5.5%	3214
Lorica	10.7%	54.6%	19.8%	10.9%	4.0%	1078
Magangué	10.9%	49.3%	18.3%	16.5%	5.1%	1202
Magdalena	10.2%	52.5%	16.7%	14.2%	6.3%	7253

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Maicao	10.7%	53.6%	17.8%	14.4%	3.4%	1796
Malambo	7.8%	67.0%	11.8%	10.1%	3.2%	989
Manizales	6.4%	74.7%	9.3%	6.5%	3.1%	2286
Medellín	7.7%	70.5%	10.2%	7.4%	4.1%	14976
Meta	7.4%	63.8%	15.4%	9.6%	3.8%	4172
Montería	9.8%	60.9%	15.2%	11.4%	2.7%	3969
Mosquera	4.1%	80.2%	7.7%	5.2%	2.7%	839
Nariño	6.8%	68.3%	12.6%	8.6%	3.6%	7529
Neiva	7.0%	70.8%	11.1%	8.5%	2.6%	2771
Norte de Santander	6.7%	69.6%	13.2%	8.3%	2.2%	6054
Palmira	6.0%	76.3%	9.9%	5.3%	2.5%	2203
Pasto	5.5%	78.4%	8.8%	4.8%	2.5%	3215
Pereira	7.0%	73.8%	8.8%	6.6%	3.9%	3082
Piedecuesta	5.8%	76.1%	9.2%	6.6%	2.3%	1129
Pitalito	7.2%	67.7%	14.1%	9.4%	1.7%	1238
Popayán	5.7%	75.9%	9.6%	5.7%	3.1%	2066
Putumayo	8.5%	61.5%	15.6%	10.8%	3.6%	3016
Quibdó	9.9%	61.7%	16.1%	9.4%	2.9%	1228
Quindío	7.1%	66.8%	12.6%	8.9%	4.7%	1758
Riohacha	10.8%	55.9%	16.3%	11.8%	5.2%	2233
Rionegro	5.6%	75.8%	10.9%	5.9%	1.8%	826
Risaralda	7.0%	69.6%	11.8%	9.7%	2.0%	2150
Sabaneta	5.6%	74.4%	7.2%	5.1%	7.7%	375
Sahagún	8.9%	61.3%	18.9%	9.6%	1.2%	995
San Andrés	15.2%	53.3%	18.6%	8.1%	4.7%	381
Santa Marta	8.8%	64.7%	13.7%	8.8%	4.1%	4034
Santander	6.4%	73.6%	10.8%	7.5%	1.8%	6390
Sincelejo	8.6%	64.6%	13.6%	10.1%	3.1%	2280
Soacha	5.1%	77.8%	9.4%	5.0%	2.7%	3891
Sogamoso	6.0%	79.2%	8.6%	3.7%	2.5%	1104
Soledad	8.0%	72.9%	10.2%	6.4%	2.5%	4112
Sucre	11.1%	49.8%	19.3%	15.9%	3.9%	6218
Tolima	7.5%	64.3%	14.9%	10.1%	3.2%	7811
Tuluá	7.0%	74.6%	10.0%	6.3%	2.1%	1698
Tumaco	13.0%	45.6%	17.0%	15.5%	8.8%	2161
Tunja	5.7%	81.3%	7.6%	4.3%	1.2%	1245
Turbo	12.0%	46.1%	19.7%	15.3%	6.9%	1580
Uribe	11.6%	43.5%	20.6%	17.6%	6.8%	1506



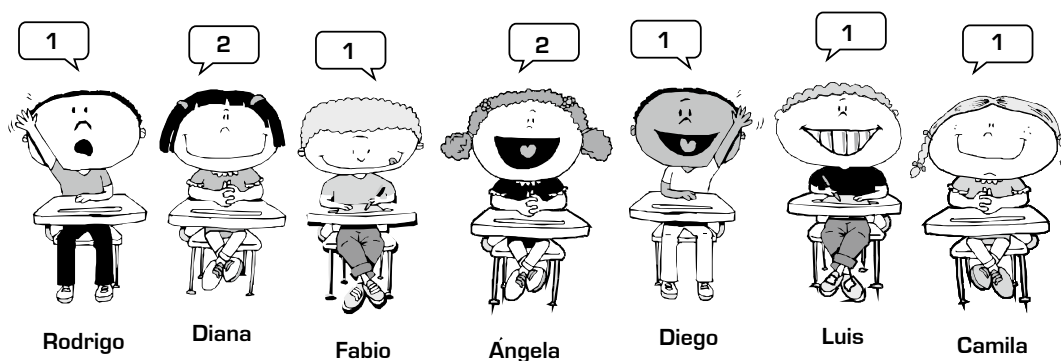
ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Valle del Cauca	7.7%	68.0%	12.5%	8.2%	3.5%	7121
Valledupar	7.4%	66.9%	11.4%	8.7%	5.7%	3871
Vaupés	12.9%	37.8%	24.4%	19.4%	5.5%	217
Vichada	11.1%	60.2%	13.5%	12.8%	2.4%	289
Villavicencio	5.9%	76.7%	9.2%	6.0%	2.2%	4134
Yopal	6.7%	70.9%	11.6%	6.6%	4.2%	1333
Zipaquirá	5.4%	80.2%	8.4%	4.4%	1.6%	930
Colombia	7.6%	67.8%	12.3%	8.6%	3.6%	370357

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

Continúa en la siguiente página

• **Pregunta 17.**

En un juego, cada niño debe decir 1 o 2, según corresponda. El primero dice 1, el siguiente dice 2, el que sigue dice 1, y así sucesivamente. Uno de los niños se equivocó.



¿Quién se equivocó?

- A. Rodrigo.
- B. Fabio.
- C. Diego.
- D. Luis.

• **Estructura**

Competencia	Razonamiento
Componente	N Numérico - variacional
Afirmación	Establecer conjeturas acerca de regularidades en contextos geométricos y numéricos.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	D

• **Resultados a nivel nacional y de Entidad Territorial certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	18.3%	13.9%	7.2%	58.3%	2.3%	733
Antioquia	15.0%	9.9%	6.4%	65.4%	3.4%	22713
Apartadó	18.5%	9.9%	7.0%	61.4%	3.2%	1327
Arauca	15.7%	10.7%	5.1%	66.5%	1.9%	2079
Armenia	12.4%	7.7%	5.0%	73.1%	1.8%	1862
Atlántico	16.3%	10.8%	8.4%	61.3%	3.2%	4344
Barrancabermeja	12.5%	6.4%	3.9%	75.9%	1.3%	1916
Barranquilla	13.8%	8.7%	5.8%	69.7%	2.0%	8962
Bello	11.6%	6.3%	3.9%	76.9%	1.3%	3019
Bogotá, D.C.	7.9%	5.2%	3.6%	81.9%	1.4%	46465
Bolívar	20.4%	14.8%	11.2%	49.5%	4.1%	8515
Boyacá	16.2%	10.1%	6.4%	65.3%	2.0%	6395
Bucaramanga	8.6%	4.9%	3.4%	81.4%	1.7%	3879
Buenaventura	17.4%	10.3%	8.0%	61.0%	3.2%	3026
Buga	11.4%	9.8%	4.6%	71.7%	2.6%	900
Caldas	15.2%	9.3%	6.0%	67.4%	2.1%	4446
Cali	11.7%	6.7%	4.4%	74.8%	2.4%	14706
Caquetá	17.8%	11.7%	7.6%	60.0%	3.0%	2685
Cartagena	14.9%	8.8%	7.5%	65.8%	2.9%	8259
Cartago	11.5%	6.1%	4.6%	75.0%	2.8%	879
Casanare	17.9%	10.0%	5.5%	64.9%	1.8%	2279
Cauca	14.0%	10.2%	7.5%	63.7%	4.6%	9876
Cesar	17.1%	11.7%	7.9%	60.5%	2.8%	6702
Chocó	17.0%	13.4%	10.2%	54.6%	4.9%	3511
Chía	6.3%	4.8%	2.7%	85.1%	1.1%	840
Ciénaga	17.6%	13.0%	8.1%	58.2%	3.2%	1092
Cundinamarca	10.5%	6.8%	4.6%	76.0%	2.0%	11717
Córdoba	17.1%	13.4%	8.9%	57.9%	2.8%	10477
Cúcuta	13.8%	7.8%	5.4%	72.3%	0.7%	5702
Dosquebradas	11.8%	7.0%	4.6%	74.7%	1.9%	1286
Duitama	7.5%	3.9%	2.7%	85.4%	0.6%	856
Envigado	4.5%	4.1%	2.1%	87.9%	1.4%	1027
Facatativá	9.3%	6.7%	3.7%	79.0%	1.3%	1023
Florencia	15.3%	10.5%	7.1%	66.2%	0.8%	1537
Floridablanca	8.2%	4.3%	2.6%	84.3%	0.7%	1949
Fusagasugá	8.6%	6.6%	4.9%	78.7%	1.1%	1011
Girardot	20.6%	9.0%	3.8%	65.0%	1.6%	708
Girón	15.7%	7.1%	4.8%	70.9%	1.4%	1067
Guainía	15.3%	16.9%	9.5%	52.6%	5.6%	443

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Guaviare	16.8%	12.6%	6.9%	60.6%	3.2%	756
Huila	17.7%	9.8%	5.6%	65.2%	1.7%	6158
Ibagué	10.0%	6.6%	5.0%	76.9%	1.4%	3951
Ipiales	10.5%	7.8%	4.0%	76.3%	1.4%	985
Itagüí	10.0%	6.5%	4.2%	78.2%	1.1%	1416
Jamundí	14.7%	10.2%	5.8%	67.2%	2.1%	933
La Guajira	16.9%	13.8%	11.8%	53.2%	4.3%	3214
Lorica	16.9%	12.1%	10.4%	58.4%	2.2%	1078
Magangué	20.1%	15.0%	10.4%	51.0%	3.4%	1203
Magdalena	17.1%	14.4%	9.1%	55.5%	3.9%	7253
Maicao	18.0%	13.8%	10.2%	55.7%	2.3%	1796
Malambo	16.8%	9.2%	6.8%	65.2%	2.0%	989
Manizales	9.7%	5.5%	4.2%	79.3%	1.3%	2287
Medellín	12.4%	7.3%	5.0%	73.2%	2.0%	14975
Meta	17.8%	9.9%	6.1%	64.0%	2.3%	4172
Montería	15.5%	10.2%	7.2%	65.7%	1.5%	3968
Mosquera	9.7%	5.2%	3.8%	79.9%	1.4%	839
Nariño	13.5%	8.9%	6.2%	68.9%	2.5%	7529
Neiva	15.8%	7.5%	6.4%	69.0%	1.3%	2771
Norte de Santander	15.0%	8.7%	5.8%	68.8%	1.6%	6053
Palmira	10.8%	6.9%	4.4%	76.4%	1.6%	2204
Pasto	9.0%	5.8%	4.3%	79.6%	1.2%	3214
Pereira	11.3%	7.6%	4.3%	75.2%	1.7%	3082
Piedecuesta	9.0%	6.0%	4.5%	79.9%	0.6%	1128
Pitalito	12.3%	11.1%	7.7%	68.3%	0.6%	1238
Popayán	9.6%	5.8%	4.8%	77.7%	2.1%	2065
Putumayo	19.4%	10.0%	6.4%	61.1%	3.2%	3015
Quibdó	12.1%	12.0%	7.3%	66.5%	2.0%	1228
Quindío	16.6%	8.9%	5.7%	66.9%	1.9%	1759
Riohacha	15.1%	11.5%	10.6%	60.2%	2.6%	2233
Rionegro	10.7%	7.7%	3.4%	77.5%	0.7%	826
Risaralda	14.4%	9.0%	6.2%	68.6%	1.8%	2150
Sabaneta	9.3%	5.3%	2.9%	76.0%	6.4%	375
Sahagún	14.1%	12.2%	8.1%	65.2%	0.4%	995
San Andrés	18.4%	13.4%	6.1%	59.7%	2.4%	380
Santa Marta	15.4%	9.7%	6.1%	66.0%	2.9%	4034
Santander	13.8%	8.7%	5.3%	71.1%	1.1%	6391
Sincelejo	16.2%	9.8%	6.8%	65.2%	1.9%	2280
Soacha	9.9%	6.8%	4.2%	77.8%	1.2%	3890
Sogamoso	7.0%	5.6%	3.7%	81.6%	2.1%	1104

Continúa en la siguiente página

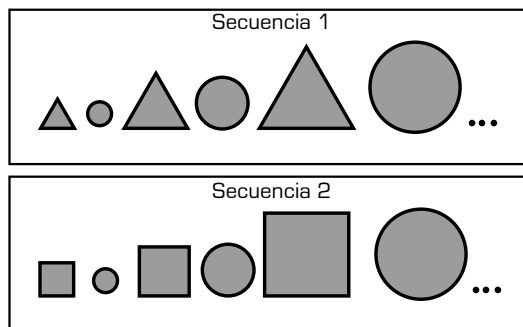


ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Soledad	14.0%	7.5%	6.5%	70.5%	1.5%	4111
Sucre	19.7%	13.7%	10.5%	53.6%	2.5%	6217
Tolima	17.2%	10.6%	7.3%	62.7%	2.2%	7808
Tuluá	11.2%	7.7%	4.6%	75.5%	1.1%	1698
Tumaco	20.1%	14.0%	10.4%	49.9%	5.6%	2162
Tunja	6.8%	5.5%	3.6%	83.1%	1.0%	1245
Turbo	24.4%	14.7%	8.8%	47.2%	4.8%	1581
Uribe	14.9%	16.2%	15.3%	49.4%	4.2%	1506
Valle del Cauca	15.2%	9.1%	5.5%	67.8%	2.4%	7120
Valledupar	14.2%	9.6%	6.2%	65.2%	4.8%	3871
Vaupés	17.0%	16.5%	12.4%	48.2%	6.0%	218
Vichada	13.1%	12.5%	6.6%	66.4%	1.4%	289
Villavicencio	11.4%	5.9%	3.9%	77.3%	1.6%	4134
Yopal	11.0%	7.8%	3.6%	76.4%	1.3%	1332
Zipaquirá	9.1%	6.1%	4.3%	79.7%	0.8%	931
Colombia	13.6%	8.9%	6.1%	69.1%	2.3%	370353

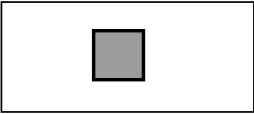
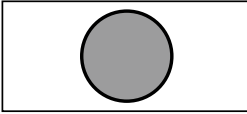
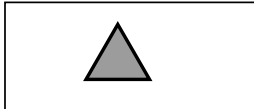
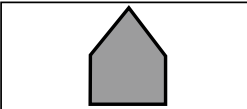
*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• **Pregunta 18.**

Observa las secuencias 1 y 2.



¿Cuál de las siguientes figuras **NO** pertenece a alguna de estas secuencias?

- A. 
- B. 
- C. 
- D. 

• **Estructura**

Competencia	Razonamiento
Componente	Numérico - variacional
Afirmación	Establecer conjeturas acerca de regularidades en contextos geométricos y numéricos
Nivel de desempeño	Mínimo
Respuesta Correcta	D



• Resultados a nivel nacional y de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Amazonas	9.3%	8.5%	6.5%	73.3%	2.5%	733
Antioquia	6.6%	6.0%	4.6%	79.2%	3.6%	22713
Apartadó	7.2%	8.2%	5.0%	76.3%	3.2%	1327
Arauca	6.5%	6.1%	3.7%	81.3%	2.5%	2079
Armenia	9.0%	5.2%	4.3%	79.6%	1.9%	1862
Atlántico	7.3%	8.5%	7.1%	73.7%	3.4%	4344
Barrancabermeja	6.8%	5.2%	4.2%	81.9%	1.8%	1916
Barranquilla	6.8%	6.2%	3.7%	80.8%	2.4%	8962
Bello	8.1%	4.9%	3.2%	82.0%	1.8%	3019
Bogotá, D.C.	8.5%	4.0%	2.4%	83.7%	1.6%	46465
Bolívar	9.0%	10.5%	9.7%	66.5%	4.3%	8515
Boyacá	6.7%	6.1%	4.2%	80.7%	2.3%	6395
Bucaramanga	7.4%	3.7%	2.3%	84.7%	1.9%	3879
Buenaventura	6.1%	7.2%	5.2%	77.4%	4.1%	3026
Buga	9.1%	5.1%	3.7%	79.7%	2.4%	900
Caldas	6.5%	4.8%	3.0%	83.3%	2.3%	4446
Cali	8.0%	4.7%	2.8%	81.8%	2.6%	14706
Caquetá	6.6%	7.9%	5.2%	76.9%	3.4%	2685
Cartagena	7.5%	7.0%	5.0%	77.2%	3.3%	8259
Cartago	6.6%	4.6%	2.3%	84.2%	2.4%	879
Casanare	7.2%	6.0%	4.3%	80.4%	2.1%	2279
Cauca	5.6%	6.8%	5.2%	77.2%	5.1%	9876
Cesar	6.5%	7.4%	5.7%	77.5%	2.8%	6702
Chocó	8.2%	10.3%	8.8%	67.3%	5.4%	3511
Chía	10.5%	4.4%	2.9%	81.7%	0.6%	840
Ciénaga	8.8%	10.0%	7.3%	70.9%	3.0%	1092
Cundinamarca	6.9%	4.6%	2.8%	83.5%	2.2%	11717
Córdoba	6.8%	8.9%	7.1%	74.3%	2.9%	10477
Cúcuta	7.8%	5.2%	3.0%	83.0%	1.1%	5702
Dosquebradas	8.2%	5.6%	2.3%	81.3%	2.6%	1286
Duitama	5.3%	4.0%	2.5%	87.4%	0.9%	856
Envigado	6.5%	3.5%	1.7%	86.9%	1.5%	1027
Facatativá	8.1%	4.2%	2.3%	83.9%	1.5%	1023
Florencia	6.3%	7.2%	4.9%	80.3%	1.4%	1537
Floridablanca	7.3%	3.1%	2.4%	86.8%	0.4%	1949
Fusagasugá	6.8%	4.7%	3.6%	83.5%	1.4%	1011
Girardot	9.3%	6.1%	5.1%	78.0%	1.6%	708
Girón	8.1%	5.2%	3.8%	81.2%	1.8%	1067
Guainía	8.1%	7.4%	5.0%	74.9%	4.5%	443

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Guaviare	7.9%	8.1%	6.3%	74.3%	3.3%	756
Huila	6.0%	6.9%	4.0%	81.4%	1.7%	6158
Ibagué	7.6%	4.9%	3.3%	82.5%	1.6%	3951
Ipiales	6.5%	4.1%	2.0%	85.9%	1.5%	985
Itagüí	7.0%	4.7%	2.7%	84.3%	1.3%	1416
Jamundí	6.8%	7.6%	3.3%	80.5%	1.8%	933
La Guajira	7.7%	11.7%	7.7%	67.6%	5.2%	3214
Lorica	7.1%	10.6%	6.2%	73.0%	3.1%	1078
Magangué	8.0%	9.6%	8.1%	70.6%	3.7%	1203
Magdalena	7.8%	9.2%	7.9%	70.7%	4.4%	7253
Maicao	8.5%	9.3%	8.6%	71.3%	2.3%	1796
Malambo	6.0%	6.8%	5.8%	78.8%	2.7%	989
Manizales	8.3%	4.2%	2.9%	83.5%	1.1%	2287
Medellín	7.8%	5.3%	3.3%	81.4%	2.2%	14975
Meta	6.5%	6.5%	4.3%	80.4%	2.3%	4172
Montería	7.4%	6.8%	5.4%	78.7%	1.7%	3968
Mosquera	7.5%	3.7%	1.8%	85.2%	1.8%	839
Nariño	4.8%	6.2%	4.4%	81.9%	2.7%	7529
Neiva	7.5%	6.1%	3.4%	81.7%	1.3%	2771
Norte de Santander	5.8%	5.4%	3.4%	83.4%	1.9%	6053
Palmira	6.9%	4.6%	2.8%	83.5%	2.2%	2204
Pasto	7.5%	4.5%	2.8%	83.7%	1.5%	3214
Pereira	6.9%	4.3%	3.1%	83.5%	2.2%	3082
Piedecuesta	7.1%	4.5%	2.0%	85.1%	1.2%	1128
Pitalito	6.6%	5.5%	3.3%	83.6%	1.0%	1238
Popayán	5.7%	4.8%	2.2%	85.4%	2.0%	2065
Putumayo	5.8%	7.7%	4.7%	78.6%	3.2%	3015
Quibdó	5.3%	9.3%	6.5%	76.7%	2.2%	1228
Quindío	7.6%	5.7%	3.6%	81.1%	1.9%	1759
Riohacha	7.2%	8.9%	6.0%	75.0%	2.8%	2233
Rionegro	6.9%	3.6%	2.7%	85.6%	1.2%	826
Risaralda	6.0%	6.2%	4.2%	81.0%	2.5%	2150
Sabaneta	6.9%	2.7%	3.5%	80.8%	6.1%	375
Sahagún	5.5%	8.3%	6.1%	79.1%	0.9%	995
San Andrés	8.2%	8.7%	9.5%	70.8%	2.9%	380
Santa Marta	7.7%	6.2%	4.5%	78.6%	3.0%	4034
Santander	5.9%	5.2%	3.1%	84.2%	1.5%	6391
Sincedejo	6.3%	6.4%	3.9%	81.1%	2.3%	2280
Soacha	7.8%	4.6%	2.8%	83.3%	1.5%	3890
Sogamoso	6.0%	4.0%	1.4%	86.5%	2.1%	1104

Continúa en la siguiente página

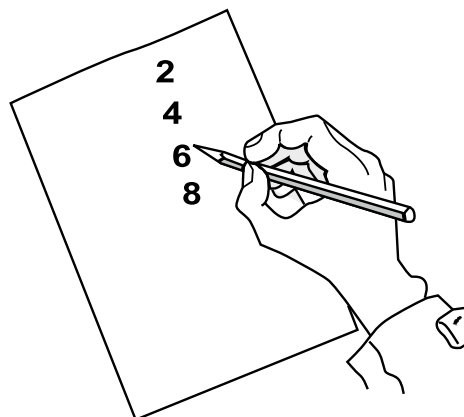


ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Soledad	6.9%	5.8%	3.4%	82.3%	1.6%	4111
Sucre	7.1%	9.8%	8.2%	72.4%	2.5%	6217
Tolima	6.7%	6.8%	5.5%	78.4%	2.6%	7808
Tuluá	7.5%	4.8%	2.8%	83.4%	1.5%	1698
Tumaco	7.7%	12.3%	9.6%	64.3%	6.0%	2162
Tunja	7.4%	3.7%	2.4%	85.4%	1.1%	1245
Turbo	7.9%	10.1%	9.3%	67.9%	4.8%	1581
Uribia	10.7%	13.7%	14.8%	55.6%	5.1%	1506
Valle del Cauca	7.3%	5.9%	3.9%	80.4%	2.5%	7120
Valledupar	5.5%	6.1%	3.5%	79.9%	5.0%	3871
Vaupés	8.3%	20.6%	9.6%	56.0%	5.5%	218
Vichada	5.9%	9.0%	5.9%	77.5%	1.7%	289
Villavicencio	7.6%	5.8%	2.8%	82.1%	1.7%	4134
Yopal	6.5%	5.0%	3.2%	83.6%	1.7%	1332
Zipaquirá	6.0%	4.0%	1.8%	86.9%	1.3%	931
Colombia	7.2%	6.2%	4.3%	79.7%	2.5%	370353

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• **Pregunta 19.**

Sebastián hizo la lista de los números que se escuchan en una canción.



¿Cómo se obtiene esa lista?

- A. Escribiendo en orden los números del 1 al 10.
- B. Sumando 2, cada vez, desde el 2.
- C. Escribiendo los números impares hasta el 10.
- D. Sumando 3, cada vez, desde el 1.

• **Estructura**

Competencia	Comunicación
Componente	N Numérico - variacional
Afirmación	Construir y describir secuencias numéricas y geométricas.
Nivel de desempeño	Mínimo
Respuesta Correcta	B

• **Resultados a nivel nacional y de Entidad Territorial certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Amazonas	14.6%	61.8%	13.0%	7.2%	3.4%	733
Antioquia	10.3%	71.9%	8.7%	5.7%	3.5%	22713
Apartadó	11.8%	68.7%	9.4%	6.5%	3.5%	1327
Arauca	9.1%	76.0%	7.5%	5.0%	2.4%	2079

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Armenia	7.9%	79.6%	6.4%	4.1%	1.9%	1862
Atlántico	10.0%	69.9%	9.0%	7.5%	3.5%	4344
Barrancabermeja	8.4%	79.2%	7.2%	3.6%	1.6%	1916
Barranquilla	8.0%	79.1%	6.7%	4.0%	2.3%	8962
Bello	7.6%	80.5%	6.0%	4.1%	1.9%	3019
Bogotá, D.C.	5.5%	85.1%	5.3%	2.6%	1.5%	46465
Bolívar	13.4%	60.6%	12.3%	9.5%	4.2%	8515
Boyacá	9.5%	75.7%	8.2%	4.4%	2.2%	6395
Bucaramanga	5.1%	84.9%	5.5%	2.7%	1.8%	3879
Buenaventura	10.0%	72.3%	8.0%	5.9%	3.8%	3026
Buga	9.7%	77.9%	6.6%	3.7%	2.2%	900
Caldas	9.4%	75.6%	7.6%	5.1%	2.3%	4446
Cali	8.1%	80.1%	5.6%	3.5%	2.6%	14706
Caquetá	12.8%	68.6%	9.7%	5.8%	3.0%	2685
Cartagena	8.8%	74.3%	8.0%	5.7%	3.3%	8259
Cartago	6.8%	80.3%	6.3%	4.1%	2.5%	879
Casanare	9.8%	76.3%	7.7%	4.0%	2.1%	2279
Cauca	9.5%	69.8%	9.3%	6.3%	5.1%	9876
Cesar	11.3%	69.6%	8.8%	7.1%	3.1%	6702
Chocó	11.4%	59.7%	12.9%	10.3%	5.6%	3511
Chía	4.6%	88.7%	4.8%	1.4%	0.5%	840
Ciénaga	11.9%	68.1%	7.8%	8.2%	3.9%	1092
Cundinamarca	6.6%	81.6%	6.3%	3.4%	2.2%	11717
Córdoba	12.2%	65.4%	11.6%	7.8%	3.1%	10477
Cúcuta	7.4%	81.5%	7.0%	2.9%	1.1%	5702
Dosquebradas	8.3%	79.5%	6.2%	3.8%	2.2%	1286
Duitama	2.8%	89.5%	5.1%	1.8%	0.8%	856
Envigado	5.0%	87.8%	4.0%	1.7%	1.6%	1027
Facatativá	5.1%	85.4%	5.5%	2.6%	1.4%	1023
Florencia	9.6%	74.7%	8.3%	6.1%	1.3%	1537
Floridablanca	4.5%	86.7%	5.6%	2.7%	0.6%	1949
Fusagasugá	6.9%	81.5%	6.3%	4.3%	1.0%	1011
Girardot	9.0%	75.4%	8.6%	5.1%	1.8%	708
Girón	7.9%	80.1%	6.7%	3.6%	1.7%	1067
Guainía	16.3%	59.1%	12.6%	7.0%	5.0%	443
Guaviare	12.3%	66.4%	11.5%	6.1%	3.7%	756
Huila	9.8%	74.6%	9.0%	5.1%	1.6%	6158
Ibagué	6.7%	82.0%	6.8%	3.2%	1.4%	3951
Ipiales	8.1%	81.1%	6.4%	2.8%	1.5%	985
Itagüí	8.6%	79.4%	6.6%	4.0%	1.4%	1416

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Jamundí	11.7%	73.5%	7.7%	5.4%	1.7%	933
La Guajira	10.8%	62.7%	11.7%	10.0%	4.7%	3214
Lorica	12.1%	64.0%	11.9%	9.0%	3.1%	1078
Magangué	12.6%	61.8%	12.5%	9.2%	3.9%	1203
Magdalena	11.4%	63.3%	11.4%	9.3%	4.5%	7253
Maicao	9.8%	67.8%	10.1%	9.6%	2.7%	1796
Malambo	7.7%	75.2%	7.8%	6.3%	3.0%	989
Manizales	7.3%	82.1%	6.3%	3.1%	1.2%	2287
Medellín	9.1%	78.3%	6.3%	4.2%	2.0%	14975
Meta	10.1%	74.7%	8.2%	4.4%	2.6%	4172
Montería	10.2%	72.4%	9.8%	5.8%	1.8%	3968
Mosquera	5.2%	84.7%	5.8%	2.6%	1.5%	839
Nariño	8.2%	76.7%	7.0%	5.4%	2.8%	7529
Neiva	9.5%	78.2%	7.8%	3.1%	1.4%	2771
Norte de Santander	9.1%	77.5%	7.3%	4.3%	1.7%	6053
Palmira	6.2%	82.8%	5.8%	3.1%	2.1%	2204
Pasto	7.2%	83.1%	5.3%	2.8%	1.6%	3214
Pereira	7.9%	81.4%	5.4%	3.4%	1.8%	3082
Piedecuesta	6.3%	84.2%	5.6%	3.0%	0.9%	1128
Pitalito	9.4%	78.4%	6.9%	4.1%	1.1%	1238
Popayán	6.2%	82.9%	5.3%	3.8%	1.8%	2065
Putumayo	12.2%	70.9%	9.1%	4.8%	2.9%	3015
Quibdó	8.3%	75.6%	7.4%	6.1%	2.6%	1228
Quindío	8.8%	77.0%	7.7%	4.4%	2.1%	1759
Riohacha	9.7%	69.8%	10.6%	6.6%	3.3%	2233
Rionegro	6.4%	84.9%	5.0%	2.3%	1.5%	826
Risaralda	9.3%	76.7%	7.0%	5.0%	2.0%	2150
Sabaneta	8.3%	78.1%	5.1%	2.7%	5.9%	375
Sahagún	12.1%	69.5%	10.2%	7.2%	1.0%	995
San Andrés	13.7%	69.5%	7.6%	6.6%	2.6%	380
Santa Marta	9.6%	74.5%	7.6%	5.3%	2.9%	4034
Santander	8.4%	79.0%	7.3%	4.0%	1.4%	6391
Sincelejo	8.4%	75.4%	8.8%	5.5%	1.9%	2280
Soacha	6.4%	83.3%	6.4%	2.7%	1.3%	3890
Sogamoso	7.0%	84.2%	5.1%	1.8%	1.9%	1104
Soledad	7.1%	80.8%	6.4%	4.0%	1.6%	4111
Sucre	13.5%	62.9%	12.0%	9.2%	2.4%	6217
Tolima	9.9%	72.6%	9.7%	5.5%	2.3%	7808
Tuluá	7.2%	82.9%	5.8%	2.9%	1.2%	1698
Tumaco	12.0%	59.6%	11.7%	10.7%	6.1%	2162

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Tunja	5.7%	86.2%	4.7%	2.2%	1.2%	1245
Turbo	15.2%	58.0%	12.1%	9.4%	5.3%	1581
Uribe	10.7%	52.8%	17.9%	13.5%	5.0%	1506
Valle del Cauca	8.8%	76.1%	7.8%	4.9%	2.4%	7120
Valledupar	8.3%	75.1%	6.7%	4.8%	5.1%	3871
Vaupés	12.8%	53.7%	17.0%	11.5%	5.0%	218
Vichada	11.8%	69.6%	10.4%	6.9%	1.4%	289
Villavicencio	6.2%	84.3%	5.0%	3.0%	1.6%	4134
Yopal	8.3%	79.6%	7.1%	3.2%	1.7%	1332
Zipaquirá	4.9%	86.8%	5.0%	1.7%	1.5%	931
Colombia	8.8%	76.0%	7.7%	4.9%	2.5%	370353

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• **Pregunta 20.**

En una ciudad, los carros no pueden transitar de lunes a viernes, según el número en que termine su placa. Observa.

<i>Día</i>	<i>No pueden transitar los que terminan en</i>
Lunes	0 y 1
Martes	2 y 3
Miércoles	...
Jueves	...
Viernes	8 y 9

No se muestran las placas de miércoles y jueves

Según la información, el jueves no pueden transitar los carros con placa terminada en

- A. 1 y 2
- B. 4 y 5
- C. 6 y 7
- D. 9 y 0

• **Estructura**

Competencia	Comunicación
Componente	Númérico - variacional
Afirmación	Construir y describir secuencias numéricas y geométricas.
Nivel de desempeño	Avanzado
Respuesta Correcta	C

• **Resultados a nivel nacional y de Entidad Territorial certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	18.4%	19.6%	40.0%	19.9%	2.0%	733
Antioquia	16.6%	19.4%	44.9%	15.3%	3.8%	22713
Apartadó	20.9%	20.8%	40.4%	15.3%	2.6%	1327
Arauca	15.4%	20.8%	47.0%	14.5%	2.3%	2079
Armenia	14.0%	24.8%	46.0%	13.5%	1.7%	1862
Atlántico	17.1%	18.0%	47.2%	14.2%	3.5%	4344
Barrancabermeja	13.7%	20.7%	51.5%	12.6%	1.6%	1916
Barranquilla	15.7%	21.4%	48.2%	12.4%	2.3%	8962

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Bello	16.0%	24.1%	45.3%	12.8%	1.8%	3019
Bogotá, D.C.	11.1%	23.2%	53.8%	10.2%	1.7%	46465
Bolívar	20.5%	18.6%	37.7%	19.0%	4.3%	8515
Boyacá	16.9%	21.4%	43.0%	16.7%	2.0%	6395
Bucaramanga	11.1%	22.6%	54.1%	10.1%	2.2%	3879
Buenaventura	15.4%	18.1%	49.4%	13.7%	3.4%	3026
Buga	14.7%	23.9%	44.3%	14.8%	2.3%	900
Caldas	15.9%	20.0%	47.2%	14.6%	2.2%	4446
Cali	13.9%	22.0%	49.6%	11.6%	2.8%	14706
Caquetá	15.0%	16.9%	48.9%	16.0%	3.1%	2685
Cartagena	16.2%	17.9%	50.3%	12.5%	3.1%	8259
Cartago	13.7%	22.5%	48.9%	12.1%	2.8%	879
Casanare	18.2%	22.6%	41.2%	16.3%	1.8%	2279
Cauca	12.9%	16.1%	52.1%	13.8%	5.0%	9876
Cesar	18.8%	17.4%	47.1%	13.9%	2.7%	6702
Chocó	17.8%	16.2%	43.2%	18.3%	4.5%	3511
Chía	10.1%	26.0%	51.8%	10.7%	1.4%	840
Ciénaga	17.1%	18.5%	46.3%	15.2%	2.8%	1092
Cundinamarca	13.3%	21.1%	50.5%	12.6%	2.5%	11717
Córdoba	18.2%	17.9%	44.3%	16.7%	2.9%	10477
Cúcuta	14.6%	22.7%	49.9%	11.6%	1.2%	5702
Dosquebradas	15.1%	22.6%	43.6%	15.6%	3.2%	1286
Duitama	9.3%	20.6%	57.4%	11.6%	1.2%	856
Envigado	11.8%	22.9%	56.6%	7.3%	1.5%	1027
Facatativá	13.1%	23.9%	48.5%	12.4%	2.1%	1023
Florencia	18.4%	21.1%	43.5%	16.3%	0.8%	1537
Floridablanca	10.5%	23.4%	56.7%	8.7%	0.7%	1949
Fusagasugá	13.9%	26.7%	43.8%	13.4%	2.2%	1011
Girardot	15.5%	22.6%	45.6%	14.5%	1.7%	708
Girón	16.7%	24.1%	46.6%	11.1%	1.6%	1067
Guainía	18.3%	17.4%	37.9%	20.5%	5.9%	443
Guaviare	20.9%	20.4%	39.9%	15.6%	3.2%	756
Huila	17.7%	18.9%	45.1%	16.9%	1.5%	6158
Ibagué	13.1%	22.1%	53.0%	10.4%	1.4%	3951
Ipiales	12.5%	23.2%	52.0%	11.1%	1.2%	985
Itagüí	16.9%	25.0%	43.9%	12.4%	1.7%	1416
Jamundí	17.4%	22.2%	43.5%	14.8%	2.1%	933
La Guajira	17.1%	17.4%	43.5%	17.1%	4.8%	3214
Lorica	18.0%	20.4%	41.7%	17.0%	2.9%	1078
Magangué	22.2%	18.2%	34.8%	21.3%	3.5%	1203

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Magdalena	15.8%	16.8%	47.0%	16.5%	4.0%	7253
Maicao	16.9%	20.3%	42.8%	17.9%	2.2%	1796
Malambo	14.0%	18.1%	52.3%	13.3%	2.3%	989
Manizales	15.5%	22.7%	47.4%	12.7%	1.7%	2287
Medellín	17.3%	24.2%	42.8%	13.4%	2.4%	14975
Meta	17.8%	21.4%	41.3%	17.1%	2.4%	4172
Montería	19.0%	21.4%	41.9%	16.0%	1.7%	3968
Mosquera	13.2%	20.9%	51.1%	13.3%	1.4%	839
Nariño	13.6%	17.3%	52.5%	13.6%	2.9%	7529
Neiva	17.0%	24.0%	42.2%	15.3%	1.6%	2771
Norte de Santander	15.2%	18.2%	51.3%	13.5%	1.8%	6053
Palmira	13.2%	22.8%	49.2%	12.5%	2.2%	2204
Pasto	12.1%	24.0%	50.9%	11.1%	1.9%	3214
Pereira	15.3%	22.4%	46.8%	13.0%	2.5%	3082
Piedecuesta	12.2%	22.8%	53.5%	10.8%	0.7%	1128
Pitalito	18.9%	19.5%	45.5%	14.9%	1.2%	1238
Popayán	10.7%	20.4%	55.8%	10.6%	2.6%	2065
Putumayo	17.6%	19.6%	44.5%	15.4%	2.9%	3015
Quibdó	14.3%	17.2%	51.6%	14.2%	2.7%	1228
Quindío	18.8%	20.2%	42.6%	15.9%	2.4%	1759
Riohacha	16.3%	19.7%	46.3%	15.1%	2.7%	2233
Rionegro	14.0%	24.9%	48.3%	11.5%	1.2%	826
Risaralda	16.6%	18.2%	48.7%	14.6%	2.0%	2150
Sabaneta	10.4%	21.6%	53.6%	8.5%	5.9%	375
Sahagún	17.2%	21.4%	44.0%	16.7%	0.7%	995
San Andrés	20.8%	23.2%	35.8%	17.6%	2.6%	380
Santa Marta	16.3%	19.5%	48.7%	12.5%	3.0%	4034
Santander	14.9%	18.3%	51.4%	13.8%	1.6%	6391
Sincelejo	17.1%	21.8%	44.8%	14.6%	1.8%	2280
Soacha	12.0%	24.0%	51.0%	11.5%	1.5%	3890
Sogamoso	11.7%	21.2%	55.2%	9.6%	2.4%	1104
Soledad	14.2%	18.1%	54.2%	11.8%	1.7%	4111
Sucre	18.9%	18.9%	40.7%	19.2%	2.3%	6217
Tolima	15.8%	19.7%	46.0%	16.0%	2.5%	7808
Tuluá	16.1%	21.6%	47.8%	13.0%	1.5%	1698
Tumaco	16.5%	18.6%	41.9%	17.4%	5.6%	2162
Tunja	9.6%	22.6%	56.4%	10.5%	1.0%	1245
Turbo	25.1%	18.5%	30.5%	21.4%	4.5%	1581
Uribe	20.2%	18.0%	37.5%	19.5%	4.8%	1506
Valle del Cauca	16.9%	21.8%	43.4%	15.4%	2.6%	7120

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Valledupar	14.3%	18.0%	49.8%	12.6%	5.2%	3871
Vaupés	15.1%	17.9%	35.3%	26.1%	5.5%	218
Vichada	16.3%	22.5%	40.5%	18.3%	2.4%	289
Villavicencio	13.2%	22.7%	51.4%	11.1%	1.7%	4134
Yopal	14.9%	22.1%	46.6%	14.6%	1.7%	1332
Zipaquirá	13.5%	22.2%	51.2%	12.1%	0.9%	931
Colombia	15.2%	20.6%	47.8%	13.8%	2.6%	370353

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• **Pregunta 21.**

Luis va a comprar una torta que cuesta \$600 y tiene las siguientes monedas para pagarla.



¿De cuántas formas distintas puede pagar la torta sin recibir vueltas?

- A. De 1 forma.
- B. De 2 formas.
- C. De 3 formas.
- D. De 4 formas.

• **Estructura**

Competencia	Resolución
Componente	Numérico - variacional
Afirmación	Resolver problemas aditivos rutinarios de composición y transformación e interpretar condiciones necesarias para su solución.
Nivel de desempeño	Avanzado
Respuesta Correcta	B

• **Resultados a nivel nacional y de Entidad Territorial certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Amazonas	19.1%	40.2%	19.8%	18.6%	2.3%	733
Antioquia	15.1%	49.2%	18.5%	13.6%	3.6%	22713
Apartadó	17.9%	44.2%	19.8%	15.8%	2.3%	1327
Arauca	14.6%	51.3%	17.6%	14.3%	2.2%	2079
Armenia	16.0%	53.3%	17.0%	11.3%	2.4%	1862
Atlántico	13.0%	50.9%	19.7%	13.2%	3.2%	4344
Barrancabermeja	15.7%	55.3%	18.1%	9.4%	1.5%	1916
Barranquilla	14.4%	52.1%	19.9%	11.4%	2.2%	8962
Bello	15.6%	53.1%	19.4%	10.2%	1.7%	3019
Bogotá, D.C.	15.0%	57.9%	16.5%	9.0%	1.6%	46465
Bolívar	15.6%	41.1%	21.5%	17.7%	4.1%	8515
Boyacá	16.5%	49.2%	18.8%	13.2%	2.3%	6395
Bucaramanga	13.9%	58.3%	16.2%	9.6%	1.9%	3879
Buenaventura	12.8%	54.5%	16.8%	12.8%	3.2%	3026

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Buga	15.2%	49.8%	20.0%	12.6%	2.4%	900
Caldas	14.8%	51.9%	19.9%	11.2%	2.2%	4446
Cali	14.7%	54.6%	17.3%	10.8%	2.6%	14706
Caquetá	13.4%	49.8%	19.1%	14.5%	3.2%	2685
Cartagena	13.9%	53.0%	17.7%	12.4%	3.0%	8259
Cartago	15.5%	55.2%	15.8%	11.1%	2.4%	879
Casanare	19.0%	46.9%	18.3%	13.6%	2.1%	2279
Cauca	11.3%	54.2%	17.2%	12.8%	4.5%	9876
Cesar	14.0%	49.1%	19.1%	14.9%	2.9%	6702
Chocó	13.3%	44.2%	21.0%	16.5%	5.0%	3511
Chía	18.7%	56.7%	16.2%	7.9%	0.6%	840
Ciénaga	12.0%	50.6%	20.4%	13.7%	3.2%	1092
Cundinamarca	16.0%	55.2%	17.1%	9.8%	2.0%	11717
Córdoba	14.7%	44.7%	20.6%	17.2%	2.8%	10477
Cúcuta	14.5%	53.1%	18.9%	12.4%	1.1%	5702
Dosquebradas	14.2%	51.9%	19.4%	11.9%	2.5%	1286
Duitama	14.4%	65.1%	13.7%	6.1%	0.8%	856
Envigado	13.8%	61.5%	15.5%	7.5%	1.7%	1027
Facatativá	15.4%	55.3%	18.6%	9.2%	1.5%	1023
Florencia	17.6%	46.6%	23.0%	11.9%	0.9%	1537
Floridablanca	12.7%	62.7%	16.0%	7.8%	0.8%	1949
Fusagasugá	13.8%	55.1%	16.9%	12.4%	1.8%	1011
Girardot	13.6%	48.6%	22.9%	12.9%	2.1%	708
Girón	17.6%	50.8%	17.3%	13.1%	1.1%	1067
Guainía	14.9%	37.9%	20.8%	21.2%	5.2%	443
Guaviare	15.9%	44.2%	20.2%	17.2%	2.5%	756
Huila	16.7%	49.6%	19.0%	13.1%	1.7%	6158
Ibagué	13.2%	57.5%	17.2%	10.6%	1.6%	3951
Ipiales	17.0%	54.7%	17.2%	10.4%	0.8%	985
Itagüí	18.5%	51.6%	17.3%	10.8%	1.8%	1416
Jamundí	18.4%	47.2%	18.8%	14.0%	1.6%	933
La Guajira	13.3%	47.0%	19.4%	15.6%	4.8%	3214
Lórica	14.7%	44.3%	22.0%	16.5%	2.5%	1078
Magangué	17.6%	39.7%	21.7%	17.8%	3.2%	1203
Magdalena	13.0%	48.1%	20.0%	14.6%	4.2%	7253
Maicao	14.9%	45.0%	20.8%	17.1%	2.1%	1796
Malambo	12.6%	58.0%	17.9%	9.2%	2.2%	989
Manizales	15.2%	53.3%	19.6%	10.4%	1.6%	2287
Medellín	17.6%	49.9%	18.6%	11.8%	2.1%	14975
Meta	17.0%	48.5%	18.0%	14.3%	2.3%	4172
Montería	15.6%	48.6%	19.6%	14.6%	1.6%	3968

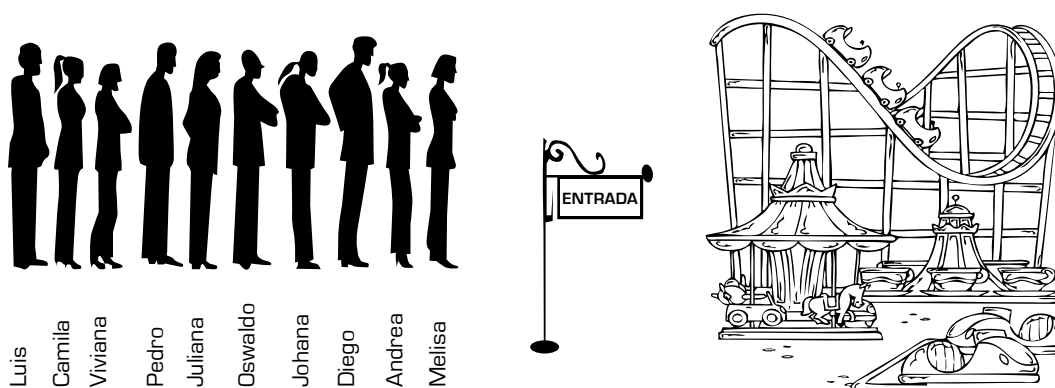
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Mosquera	15.6%	56.3%	16.4%	10.1%	1.5%	839
Nariño	12.1%	55.7%	16.9%	12.8%	2.4%	7529
Neiva	16.3%	50.4%	19.5%	12.2%	1.5%	2771
Norte de Santander	13.4%	54.5%	17.8%	12.6%	1.7%	6053
Palmira	15.0%	56.4%	16.7%	10.3%	1.7%	2204
Pasto	14.8%	54.1%	18.2%	11.1%	1.7%	3214
Pereira	15.3%	55.0%	18.0%	9.5%	2.1%	3082
Piedecuesta	15.6%	56.7%	16.8%	9.8%	1.1%	1128
Pitalito	14.0%	51.0%	20.2%	13.7%	1.1%	1238
Popayán	14.4%	58.5%	16.0%	9.0%	2.1%	2065
Putumayo	15.8%	48.1%	18.7%	14.6%	2.8%	3015
Quibdó	13.9%	53.1%	17.3%	13.3%	2.4%	1228
Quindío	14.9%	52.2%	18.0%	12.8%	2.1%	1759
Riohacha	14.3%	48.9%	20.6%	13.5%	2.7%	2233
Rionegro	16.6%	56.9%	16.3%	9.3%	0.8%	826
Risaralda	14.8%	52.1%	18.5%	12.5%	2.1%	2150
Sabaneta	14.7%	56.8%	13.3%	8.3%	6.9%	375
Sahagún	15.9%	45.6%	21.5%	16.2%	0.8%	995
San Andrés	18.2%	42.9%	17.6%	18.2%	3.2%	380
Santa Marta	15.0%	49.8%	19.5%	12.9%	2.8%	4034
Santander	14.8%	55.1%	17.2%	11.7%	1.3%	6391
Sincedejo	15.9%	50.3%	17.0%	14.9%	1.9%	2280
Soacha	15.8%	55.5%	18.3%	9.1%	1.4%	3890
Sogamoso	13.9%	60.3%	14.4%	9.3%	2.1%	1104
Soledad	12.5%	58.4%	18.1%	9.2%	1.8%	4111
Sucre	15.4%	43.3%	20.8%	17.5%	3.0%	6217
Tolima	15.1%	48.7%	19.4%	14.4%	2.4%	7808
Tuluá	14.3%	57.7%	17.9%	8.9%	1.2%	1698
Tumaco	13.3%	45.3%	20.3%	15.1%	6.0%	2162
Tunja	14.3%	59.8%	16.8%	7.9%	1.3%	1245
Turbo	16.5%	37.8%	21.6%	19.7%	4.4%	1581
Uribe	12.8%	32.9%	29.7%	20.9%	3.7%	1506
Valle del Cauca	15.2%	49.6%	18.8%	13.8%	2.6%	7120
Valledupar	13.8%	51.6%	17.7%	11.9%	4.9%	3871
Vaupés	16.1%	39.0%	18.3%	22.5%	4.1%	218
Vichada	18.7%	41.2%	22.1%	15.9%	2.1%	289
Villavicencio	15.3%	56.3%	16.7%	10.1%	1.6%	4134
Yopal	16.0%	51.8%	18.8%	11.9%	1.6%	1332
Zipaquirá	14.0%	58.3%	16.3%	10.6%	0.8%	931
Colombia	14.9%	52.0%	18.4%	12.4%	2.4%	370353

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 22.

Algunas personas están haciendo fila para entrar en el parque de diversiones.



¿Dónde está Juliana?

- A. Dos puestos delante de Luis.
- B. Dos puestos detrás de Johana.
- C. Tres puestos detrás de Melisa.
- D. Tres puestos delante de Diego.

• Estructura

Competencia	Comunicación
Componente	Geométrico - métrico
Afirmación	Ubicar objetos con base en instrucciones referentes a dirección, distancia y posición.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	B

• Resultados a nivel nacional y de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	11.5%	38.1%	15.6%	31.7%	3.3%	733
Antioquia	9.4%	48.2%	10.3%	28.2%	3.8%	22713
Apartadó	11.2%	44.6%	11.5%	30.0%	2.7%	1327
Arauca	7.6%	53.1%	10.8%	26.2%	2.3%	2079
Armenia	7.4%	58.9%	7.8%	24.0%	1.9%	1862
Atlántico	9.7%	42.9%	12.3%	31.2%	3.9%	4344
Barrancabermeja	9.0%	55.7%	7.6%	26.3%	1.4%	1916
Barranquilla	9.2%	50.4%	9.0%	28.8%	2.6%	8962
Bello	7.6%	59.8%	7.7%	22.9%	2.1%	3019
Bogotá, D.C.	6.7%	65.0%	5.8%	20.7%	1.8%	46465
Bolívar	12.2%	35.8%	16.7%	30.4%	4.8%	8515
Boyacá	8.7%	54.4%	9.5%	24.9%	2.5%	6395
Bucaramanga	6.4%	63.7%	6.2%	21.5%	2.2%	3879
Buenaventura	10.1%	47.7%	10.9%	27.5%	3.8%	3026
Buga	9.1%	57.7%	6.4%	24.4%	2.3%	900
Caldas	8.2%	53.5%	8.7%	27.1%	2.5%	4446
Cali	8.1%	57.8%	7.3%	23.9%	2.8%	14706
Caquetá	10.2%	48.3%	10.8%	27.7%	2.9%	2685
Cartagena	9.8%	47.0%	10.0%	29.9%	3.3%	8259
Cartago	6.7%	58.2%	6.8%	25.4%	2.8%	879
Casanare	9.3%	51.5%	9.7%	27.1%	2.3%	2279
Cauca	8.7%	47.9%	11.8%	26.3%	5.3%	9876
Cesar	9.2%	45.4%	11.8%	30.6%	3.1%	6702
Chocó	12.4%	36.2%	15.5%	30.3%	5.6%	3511
Chía	5.7%	66.7%	5.0%	21.4%	1.2%	840
Ciénaga	10.6%	41.1%	12.3%	32.5%	3.5%	1092
Cundinamarca	7.2%	59.1%	7.6%	23.8%	2.4%	11717
Córdoba	11.0%	40.3%	13.8%	31.8%	3.2%	10477
Cúcuta	8.3%	56.8%	7.9%	25.8%	1.2%	5702
Dosquebradas	8.2%	57.5%	6.6%	25.0%	2.6%	1286
Duitama	4.2%	70.6%	4.7%	19.6%	0.9%	856
Envigado	6.5%	65.9%	5.4%	20.4%	1.8%	1027
Facatativá	6.9%	60.9%	6.7%	23.9%	1.6%	1023
Florencia	10.0%	54.0%	10.0%	24.4%	1.6%	1537
Floridablanca	5.7%	66.3%	6.0%	20.8%	1.2%	1949
Fusagasugá	8.9%	60.1%	7.9%	22.0%	1.1%	1011
Girardot	8.8%	48.0%	12.9%	28.8%	1.6%	708
Girón	8.2%	57.4%	8.1%	24.8%	1.5%	1067
Guainía	9.5%	43.3%	11.1%	30.0%	6.1%	443

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Guaviare	10.6%	45.5%	11.4%	29.9%	2.6%	756
Huila	9.4%	50.3%	10.4%	28.3%	1.7%	6158
Ibagué	7.0%	60.1%	7.3%	23.7%	1.8%	3951
Ipiales	7.4%	55.6%	7.8%	28.1%	1.0%	985
Itagüí	7.6%	61.5%	6.6%	22.5%	1.8%	1416
Jamundí	10.9%	50.4%	10.2%	26.8%	1.7%	933
La Guajira	11.6%	38.1%	14.6%	31.0%	4.7%	3214
Lorica	12.1%	40.9%	13.1%	30.1%	3.9%	1078
Magangué	12.0%	36.9%	15.0%	31.9%	4.2%	1203
Magdalena	10.5%	39.1%	14.2%	30.5%	5.7%	7253
Maicao	11.4%	37.7%	14.5%	33.6%	2.8%	1796
Malambo	9.4%	49.6%	10.0%	27.6%	3.3%	989
Manizales	7.2%	61.3%	6.3%	23.7%	1.5%	2287
Medellín	8.5%	57.3%	7.8%	23.8%	2.5%	14975
Meta	9.5%	50.6%	10.0%	27.2%	2.7%	4172
Montería	10.8%	45.7%	12.7%	28.9%	1.9%	3968
Mosquera	7.3%	62.1%	6.6%	22.3%	1.8%	839
Nariño	8.3%	51.3%	9.3%	27.9%	3.1%	7529
Neiva	9.1%	54.0%	9.1%	26.2%	1.6%	2771
Norte de Santander	8.2%	53.8%	9.2%	27.1%	1.8%	6053
Palmira	6.9%	59.4%	6.8%	25.2%	1.8%	2204
Pasto	7.4%	57.7%	7.2%	26.0%	1.7%	3214
Pereira	7.4%	58.4%	7.0%	25.0%	2.2%	3082
Piedecuesta	9.7%	61.2%	6.5%	21.5%	1.2%	1128
Pitalito	10.3%	54.4%	9.1%	25.0%	1.1%	1238
Popayán	7.1%	57.0%	6.8%	26.4%	2.6%	2065
Putumayo	9.1%	48.0%	10.9%	29.1%	2.9%	3015
Quibdó	9.0%	45.9%	12.5%	29.2%	3.5%	1228
Quindío	8.9%	53.4%	8.7%	26.2%	2.8%	1759
Riohacha	8.7%	43.6%	12.4%	31.4%	3.9%	2233
Rionegro	9.1%	61.0%	7.0%	21.7%	1.2%	826
Risaralda	8.5%	52.5%	8.9%	27.8%	2.3%	2150
Sabaneta	5.6%	60.8%	7.2%	20.3%	6.1%	375
Sahagún	10.3%	40.7%	14.5%	33.6%	1.0%	995
San Andrés	11.8%	40.8%	11.3%	33.2%	2.9%	380
Santa Marta	10.1%	47.1%	9.7%	29.8%	3.3%	4034
Santander	8.2%	58.1%	8.5%	23.6%	1.6%	6391
Sincelejo	9.5%	49.3%	11.2%	27.9%	2.0%	2280
Soacha	7.7%	59.7%	6.8%	24.2%	1.6%	3890
Sogamoso	5.8%	63.4%	8.2%	20.6%	2.0%	1104

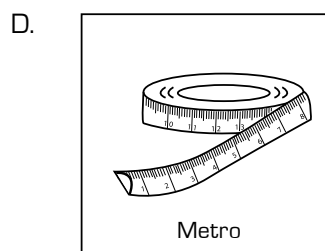
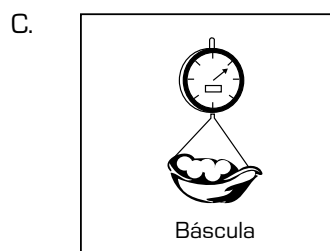
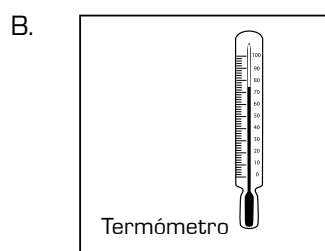
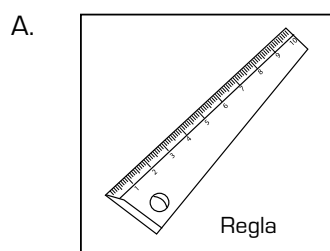
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Soledad	8.2%	53.6%	7.9%	28.3%	2.0%	4111
Sucre	11.9%	38.0%	15.0%	32.0%	3.0%	6217
Tolima	9.0%	49.1%	11.1%	28.1%	2.8%	7808
Tuluá	8.0%	56.1%	7.4%	26.9%	1.6%	1698
Tumaco	12.4%	35.3%	12.8%	32.4%	7.0%	2162
Tunja	6.7%	65.9%	5.7%	20.1%	1.5%	1245
Turbo	13.3%	32.5%	16.2%	32.6%	5.4%	1581
Uribe	12.6%	33.6%	18.1%	29.7%	6.0%	1506
Valle del Cauca	8.3%	52.3%	9.5%	26.9%	2.9%	7120
Valledupar	7.2%	50.1%	9.7%	28.0%	5.0%	3871
Vaupés	10.1%	35.8%	21.1%	28.0%	5.0%	218
Vichada	11.1%	45.3%	10.7%	30.8%	2.1%	289
Villavicencio	6.6%	61.2%	7.5%	23.0%	1.7%	4134
Yopal	7.1%	58.2%	7.8%	25.0%	2.0%	1332
Zipaquirá	6.3%	62.3%	5.6%	24.5%	1.3%	931
Colombia	8.7%	52.7%	9.5%	26.3%	2.8%	370353

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• **Pregunta 23.**

¿Qué instrumento se puede utilizar para comprobar el peso de una libra de harina?



• **Estructura**

Competencia	Comunicación
Componente	Geométrico - métrico
Afirmación	Establecer correspondencia entre objetos o eventos y patrones o instrumentos de medida.
Nivel de desempeño	Mínimo
Respuesta Correcta	C

• **Resultados a nivel nacional y de Entidad Territorial certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Amazonas	8.3%	5.7%	76.8%	6.8%	2.3%	733
Antioquia	4.4%	4.3%	82.9%	5.1%	3.3%	22713
Apartadó	6.1%	3.8%	81.5%	6.0%	2.6%	1327
Arauca	3.3%	4.4%	86.2%	4.4%	1.7%	2079
Armenia	2.6%	3.1%	89.3%	3.4%	1.6%	1862

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Atlántico	5.8%	5.1%	80.6%	5.7%	2.9%	4344
Barrancabermeja	3.3%	3.0%	88.9%	4.2%	0.6%	1916
Barranquilla	3.7%	2.7%	87.7%	4.1%	1.8%	8962
Bello	2.7%	3.7%	88.5%	3.9%	1.2%	3019
Bogotá, D.C.	2.0%	2.2%	91.3%	3.1%	1.4%	46465
Bolívar	8.6%	7.1%	71.1%	9.4%	3.8%	8515
Boyacá	3.4%	3.4%	87.1%	4.3%	1.9%	6395
Bucaramanga	1.9%	2.5%	90.7%	3.4%	1.5%	3879
Buenaventura	4.9%	4.4%	82.8%	5.2%	2.6%	3026
Buga	2.1%	3.3%	89.8%	2.8%	2.0%	900
Caldas	3.4%	3.5%	86.8%	4.4%	1.9%	4446
Cali	2.7%	2.6%	88.8%	3.7%	2.2%	14706
Caquetá	3.6%	4.8%	83.8%	5.1%	2.6%	2685
Cartagena	4.6%	4.5%	83.2%	5.2%	2.6%	8259
Cartago	3.0%	4.1%	87.4%	3.2%	2.4%	879
Casanare	3.0%	3.5%	86.7%	5.1%	1.7%	2279
Cauca	4.6%	4.9%	81.3%	4.9%	4.3%	9876
Cesar	5.7%	4.7%	81.2%	6.1%	2.4%	6702
Chocó	9.4%	6.6%	70.6%	8.4%	5.0%	3511
Chía	1.8%	2.0%	93.8%	1.9%	0.5%	840
Ciénaga	6.0%	6.0%	78.8%	6.5%	2.7%	1092
Cundinamarca	2.4%	2.6%	89.6%	3.4%	2.0%	11717
Córdoba	6.1%	5.3%	79.0%	7.3%	2.3%	10477
Cúcuta	2.7%	2.6%	90.7%	3.2%	0.8%	5702
Dosquebradas	2.9%	3.1%	87.1%	4.6%	2.3%	1286
Duitama	0.9%	1.1%	95.3%	2.0%	0.7%	856
Envigado	1.7%	2.0%	91.7%	3.0%	1.6%	1027
Facatativá	2.8%	1.7%	91.0%	3.5%	1.0%	1023
Florencia	4.3%	4.1%	86.5%	3.9%	1.2%	1537
Floridablanca	1.3%	1.7%	93.9%	2.5%	0.5%	1949
Fusagasugá	2.8%	2.5%	89.9%	3.6%	1.3%	1011
Girardot	3.2%	4.7%	84.3%	6.6%	1.1%	708
Girón	2.8%	2.7%	88.3%	4.6%	1.6%	1067
Guainía	6.1%	5.2%	73.1%	9.3%	6.3%	443
Guaviare	6.3%	3.4%	82.5%	5.8%	1.9%	756
Huila	3.3%	3.5%	87.0%	4.8%	1.4%	6158
Ibagué	2.3%	2.5%	90.8%	3.0%	1.4%	3951
Ipiales	2.6%	2.8%	91.0%	2.8%	0.7%	985
Itagüí	2.7%	3.3%	89.7%	3.1%	1.2%	1416
Jamundí	3.9%	3.1%	88.3%	3.8%	1.0%	933

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
La Guajira	7.8%	6.2%	74.0%	7.9%	4.1%	3214
Lorica	5.8%	5.3%	79.6%	7.1%	2.2%	1078
Magangué	6.1%	7.0%	73.9%	9.6%	3.4%	1203
Magdalena	7.3%	5.6%	76.6%	6.6%	3.8%	7253
Maicao	8.0%	7.1%	75.2%	7.5%	2.2%	1796
Malambo	5.3%	2.6%	85.1%	4.9%	2.1%	989
Manizales	2.1%	2.6%	90.7%	3.1%	1.4%	2287
Medellín	3.5%	3.5%	86.5%	4.5%	1.9%	14975
Meta	3.8%	3.7%	86.0%	4.5%	2.0%	4172
Montería	5.3%	4.2%	83.8%	5.3%	1.4%	3968
Mosquera	1.2%	1.7%	92.8%	3.0%	1.3%	839
Nariño	3.5%	3.8%	86.1%	4.4%	2.2%	7529
Neiva	3.4%	3.3%	88.3%	4.0%	1.0%	2771
Norte de Santander	2.7%	3.1%	88.8%	3.7%	1.6%	6053
Palmira	2.8%	2.5%	90.2%	2.7%	1.9%	2204
Pasto	1.6%	2.5%	91.4%	3.3%	1.2%	3214
Pereira	2.7%	3.0%	89.5%	3.2%	1.6%	3082
Piedecuesta	1.3%	2.7%	91.4%	3.6%	0.9%	1128
Pitalito	3.2%	4.0%	88.9%	3.3%	0.6%	1238
Popayán	2.1%	3.1%	90.1%	3.0%	1.8%	2065
Putumayo	2.7%	4.0%	86.3%	4.3%	2.6%	3015
Quibdó	4.4%	4.0%	84.1%	5.0%	2.4%	1228
Quindío	4.2%	3.3%	85.7%	4.4%	2.4%	1759
Riohacha	6.5%	5.1%	80.7%	5.6%	2.1%	2233
Rionegro	2.5%	3.0%	90.9%	2.7%	0.8%	826
Risaralda	3.8%	4.0%	86.7%	3.7%	1.8%	2150
Sabaneta	1.6%	1.6%	88.5%	2.1%	6.1%	375
Sahagún	4.8%	5.1%	82.1%	7.7%	0.2%	995
San Andrés	6.8%	4.7%	80.5%	5.8%	2.1%	380
Santa Marta	4.1%	3.8%	85.3%	4.3%	2.4%	4034
Santander	2.6%	3.1%	89.8%	3.4%	1.2%	6391
Sincelejo	3.9%	4.0%	87.1%	3.5%	1.5%	2280
Soacha	2.4%	2.4%	91.0%	3.0%	1.2%	3890
Sogamoso	1.4%	2.6%	91.8%	2.3%	1.9%	1104
Soledad	3.7%	2.3%	89.2%	3.6%	1.3%	4111
Sucre	6.8%	5.6%	77.0%	8.3%	2.3%	6217
Tolima	4.2%	4.4%	83.6%	5.4%	2.3%	7808
Tuluá	2.6%	2.2%	89.8%	4.1%	1.3%	1698
Tumaco	8.9%	8.5%	67.8%	9.6%	5.1%	2162
Tunja	1.6%	1.8%	93.4%	2.2%	1.0%	1245

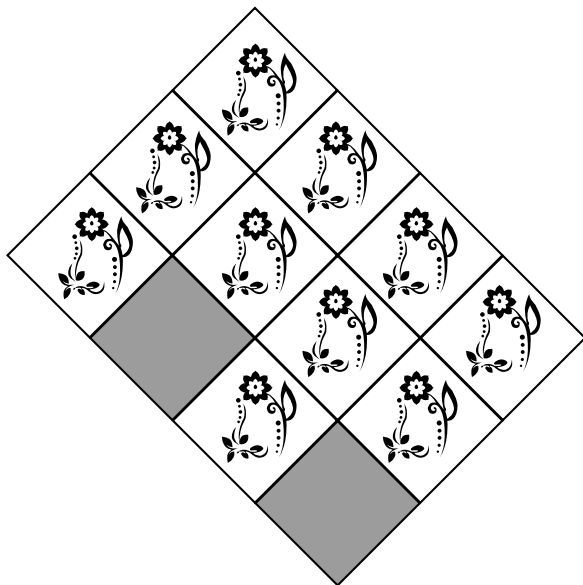
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Turbo	9.7%	7.8%	69.6%	8.4%	4.4%	1581
Uribe	14.8%	7.5%	63.3%	10.8%	3.7%	1506
Valle del Cauca	3.1%	3.7%	86.7%	4.2%	2.3%	7120
Valledupar	2.9%	3.3%	84.6%	4.6%	4.6%	3871
Vaupés	9.2%	12.8%	64.2%	9.2%	4.6%	218
Vichada	5.2%	6.6%	78.5%	7.6%	2.1%	289
Villavicencio	2.2%	2.4%	91.1%	3.1%	1.2%	4134
Yopal	3.0%	2.9%	89.0%	3.9%	1.2%	1332
Zipaquirá	2.1%	2.1%	90.5%	3.9%	1.3%	931
Colombia	3.9%	3.7%	85.7%	4.6%	2.2%	370353

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• **Pregunta 24.**

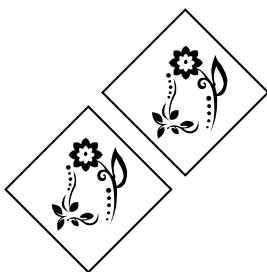
A esta figura le faltan dos piezas.



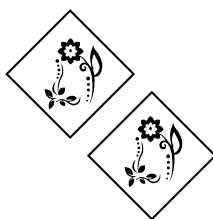
Figura

¿Cuáles piezas cubren exactamente los espacios sombreados?

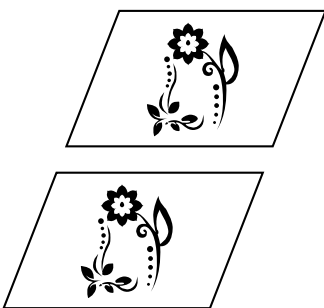
A.



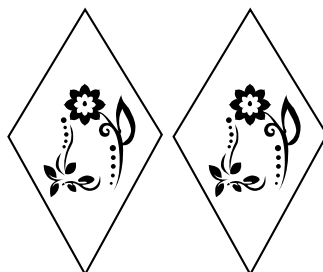
B.



C.



D.



• Estructura

Competencia	Resolución
Componente	Geométrico - métrico
Afirmación	Usar propiedades geométricas para solucionar problemas relativos a diseño y construcción de figuras planas.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	A

• Resultados a nivel nacional y de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	56.6%	25.4%	10.2%	4.5%	3.3%	733
Antioquia	61.9%	22.3%	6.5%	5.7%	3.6%	22713
Apartadó	65.3%	21.4%	6.8%	4.7%	1.9%	1327
Arauca	62.2%	25.3%	4.9%	5.4%	2.2%	2079
Armenia	61.1%	29.8%	4.2%	3.0%	1.9%	1862
Atlántico	63.3%	20.9%	7.1%	5.6%	3.1%	4344
Barrancabermeja	68.2%	23.4%	4.3%	2.8%	1.4%	1916
Barranquilla	67.7%	22.8%	4.2%	3.1%	2.1%	8962
Bello	65.9%	26.7%	3.2%	2.5%	1.7%	3019
Bogotá, D.C.	64.5%	29.3%	2.3%	2.1%	1.7%	46465
Bolívar	56.2%	19.0%	11.4%	9.1%	4.2%	8515
Boyacá	61.9%	24.1%	6.1%	5.5%	2.3%	6395
Bucaramanga	64.2%	28.2%	3.3%	2.5%	1.9%	3879
Buenaventura	67.5%	16.8%	7.0%	5.7%	3.0%	3026
Buga	62.0%	28.9%	3.0%	3.2%	2.9%	900
Caldas	66.9%	21.8%	4.5%	4.5%	2.4%	4446
Cali	66.6%	24.9%	3.1%	2.9%	2.5%	14706
Caquetá	57.8%	21.8%	9.2%	8.1%	3.1%	2685
Cartagena	67.3%	20.5%	5.3%	3.9%	2.9%	8259
Cartago	62.7%	27.6%	3.1%	3.5%	3.1%	879
Casanare	63.1%	24.1%	6.2%	4.8%	1.8%	2279
Cauca	63.0%	18.6%	8.0%	5.7%	4.7%	9876
Cesar	64.7%	18.9%	7.6%	6.0%	2.8%	6702
Chocó	54.2%	19.0%	11.9%	10.3%	4.6%	3511
Chía	62.7%	32.6%	2.0%	1.5%	1.1%	840
Ciénaga	61.6%	20.4%	9.4%	5.5%	3.0%	1092
Cundinamarca	64.3%	26.5%	3.9%	3.2%	2.0%	11717
Córdoba	60.5%	19.1%	10.1%	7.6%	2.7%	10477

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Cúcuta	66.7%	24.1%	4.2%	3.8%	1.2%	5702
Dosquebradas	62.9%	28.7%	2.8%	2.9%	2.7%	1286
Duitama	63.3%	31.1%	1.9%	3.2%	0.6%	856
Envigado	58.8%	34.6%	3.0%	2.2%	1.4%	1027
Facatativá	65.4%	25.9%	3.5%	3.4%	1.8%	1023
Florencia	62.1%	24.7%	6.6%	5.3%	1.4%	1537
Floridablanca	70.2%	25.7%	1.6%	1.3%	1.2%	1949
Fusagasugá	64.3%	27.0%	4.6%	2.8%	1.3%	1011
Girardot	62.6%	27.5%	5.1%	3.2%	1.6%	708
Girón	64.8%	26.9%	4.4%	2.5%	1.4%	1067
Guainía	49.2%	25.5%	12.0%	8.1%	5.2%	443
Guaviare	54.4%	23.4%	12.6%	6.9%	2.8%	756
Huila	64.0%	23.1%	6.0%	5.4%	1.6%	6158
Ibagué	66.5%	25.5%	3.2%	3.3%	1.5%	3951
Ipiales	66.9%	23.1%	4.2%	4.4%	1.4%	985
Itagüí	61.8%	29.9%	4.3%	2.5%	1.5%	1416
Jamundí	68.6%	21.2%	4.6%	3.9%	1.7%	933
La Guajira	55.0%	19.6%	12.0%	8.8%	4.6%	3214
Lorica	60.9%	21.2%	8.8%	7.1%	2.0%	1078
Magangué	55.7%	20.4%	11.2%	9.0%	3.7%	1203
Magdalena	58.9%	19.2%	9.9%	8.1%	4.0%	7253
Maicao	56.0%	23.2%	10.2%	8.6%	1.9%	1796
Malambo	66.6%	21.9%	5.6%	3.6%	2.2%	989
Manizales	62.8%	29.9%	2.5%	2.9%	1.8%	2287
Medellín	62.9%	27.6%	4.0%	3.4%	2.1%	14975
Meta	64.0%	21.2%	6.1%	6.1%	2.6%	4172
Montería	64.0%	21.3%	7.5%	5.7%	1.5%	3968
Mosquera	63.3%	31.5%	1.8%	1.9%	1.5%	839
Nariño	67.0%	19.7%	6.1%	4.7%	2.5%	7529
Neiva	63.9%	26.3%	4.2%	4.0%	1.7%	2771
Norte de Santander	67.0%	22.0%	5.3%	4.1%	1.7%	6053
Palmira	67.4%	25.1%	3.3%	2.1%	2.1%	2204
Pasto	63.9%	28.9%	3.4%	2.8%	1.0%	3214
Pereira	64.1%	27.4%	3.2%	3.2%	2.2%	3082
Piedecuesta	66.5%	27.6%	2.4%	2.2%	1.3%	1128
Pitalito	64.4%	26.4%	4.0%	4.4%	0.9%	1238
Popayán	67.6%	25.4%	2.7%	2.3%	2.1%	2065
Putumayo	62.6%	22.5%	6.9%	5.1%	3.0%	3015
Quibdó	65.0%	21.0%	6.9%	4.8%	2.3%	1228
Quindío	64.2%	23.7%	5.2%	4.8%	2.1%	1759

Continúa en la siguiente página

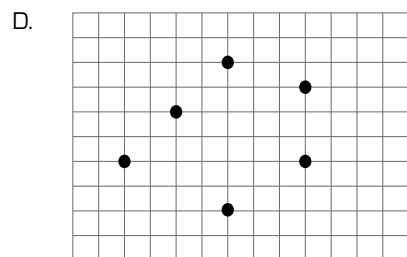
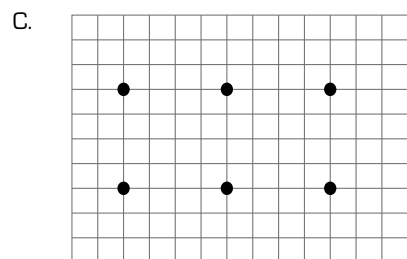
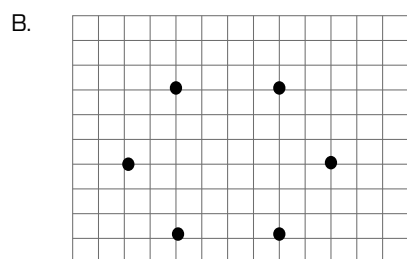
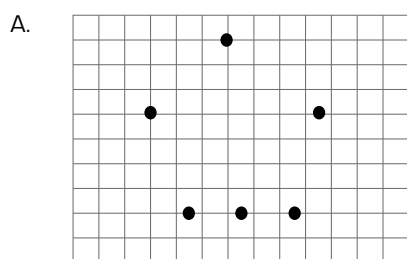
ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Riohacha	58.8%	21.9%	9.4%	7.3%	2.6%	2233
Rionegro	65.3%	27.8%	3.1%	2.5%	1.2%	826
Risaralda	64.0%	24.0%	5.3%	4.5%	2.2%	2150
Sabaneta	58.9%	28.3%	3.2%	3.5%	6.1%	375
Sahagún	67.6%	17.3%	8.2%	6.2%	0.6%	995
San Andrés	63.4%	22.4%	6.6%	5.3%	2.4%	380
Santa Marta	65.3%	22.9%	4.6%	4.3%	2.8%	4034
Santander	66.1%	22.9%	5.5%	3.9%	1.5%	6391
Sincelejo	66.1%	21.8%	5.7%	5.0%	1.5%	2280
Soacha	66.9%	26.2%	2.5%	2.9%	1.4%	3890
Sogamoso	66.4%	26.0%	2.7%	2.5%	2.4%	1104
Soledad	69.3%	22.3%	3.5%	3.3%	1.6%	4111
Sucre	59.4%	18.5%	11.4%	7.9%	2.8%	6217
Tolima	62.4%	21.8%	7.5%	5.9%	2.4%	7808
Tuluá	65.8%	26.8%	3.1%	2.9%	1.4%	1698
Tumaco	53.7%	19.3%	12.5%	9.0%	5.5%	2162
Tunja	61.4%	32.8%	3.1%	1.4%	1.2%	1245
Turbo	55.3%	20.1%	10.2%	9.4%	5.1%	1581
Uribe	35.5%	26.2%	19.5%	14.5%	4.2%	1506
Valle del Cauca	65.4%	23.8%	4.5%	3.7%	2.6%	7120
Valledupar	65.9%	19.7%	5.1%	4.1%	5.1%	3871
Vaupés	37.2%	23.4%	17.0%	17.0%	5.5%	218
Vichada	57.4%	23.2%	9.7%	6.2%	3.5%	289
Villavicencio	65.8%	26.8%	3.2%	2.6%	1.5%	4134
Yopal	63.0%	28.8%	3.4%	3.2%	1.7%	1332
Zipaquirá	63.5%	29.5%	2.9%	2.8%	1.3%	931
Colombia	63.5%	23.9%	5.6%	4.5%	2.5%	370353

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.



• **Pregunta 25.**

¿Con cuál de los siguientes conjuntos de puntos se puede formar un polígono de seis lados?



• Estructura

Competencia	Resolución
Componente	Geométrico - métrico
Afirmación	Usar propiedades geométricas para solucionar problemas relativos a diseño y construcción de figuras planas.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	B

• Resultados a nivel nacional y de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Amazonas	15.7%	46.0%	22.4%	12.8%	3.1%	733
Antioquia	17.0%	54.0%	15.7%	9.5%	3.8%	22713
Apartadó	19.1%	50.6%	17.3%	10.9%	2.1%	1327
Arauca	17.6%	56.3%	15.0%	9.0%	2.1%	2079
Armenia	19.7%	55.7%	14.1%	8.5%	2.0%	1862
Atlántico	18.4%	53.7%	15.7%	8.5%	3.6%	4344
Barrancabermeja	20.0%	59.2%	12.2%	7.1%	1.4%	1916
Barranquilla	18.9%	57.7%	13.3%	7.9%	2.3%	8962
Bello	21.8%	55.1%	12.8%	8.1%	2.2%	3019
Bogotá, D.C.	19.3%	60.8%	10.4%	7.6%	1.9%	46465
Bolívar	17.1%	46.2%	20.5%	11.5%	4.6%	8515
Boyacá	16.7%	57.1%	14.0%	9.5%	2.7%	6395
Bucaramanga	21.3%	59.8%	9.7%	7.2%	2.1%	3879
Buenaventura	12.8%	59.7%	15.9%	8.1%	3.5%	3026
Buga	21.4%	55.0%	14.6%	6.0%	3.0%	900
Caldas	17.3%	58.2%	13.5%	8.3%	2.7%	4446
Cali	18.0%	59.1%	12.6%	7.4%	2.8%	14706
Caquetá	14.0%	57.9%	16.5%	8.8%	2.7%	2685
Cartagena	16.2%	57.7%	14.5%	8.5%	3.1%	8259
Cartago	16.3%	59.4%	14.4%	6.9%	3.0%	879
Casanare	20.4%	54.6%	14.6%	8.0%	2.4%	2279
Cauca	13.3%	60.7%	12.7%	8.3%	5.0%	9876
Cesar	13.6%	58.8%	16.1%	8.5%	3.0%	6702
Chocó	13.1%	46.5%	22.8%	11.4%	6.2%	3511
Chía	20.7%	61.2%	9.6%	7.3%	1.2%	840
Ciénaga	15.7%	54.8%	17.8%	8.9%	2.9%	1092
Cundinamarca	18.3%	59.9%	11.4%	8.1%	2.4%	11717

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Córdoba	15.3%	52.6%	18.5%	10.6%	3.1%	10477
Cúcuta	20.3%	57.7%	12.6%	8.0%	1.3%	5702
Dosquebradas	21.2%	55.1%	12.9%	8.3%	2.4%	1286
Duitama	18.6%	67.1%	8.4%	4.9%	1.1%	856
Envigado	24.1%	56.8%	10.4%	7.0%	1.8%	1027
Facatativá	21.1%	59.0%	11.0%	7.2%	1.6%	1023
Florencia	17.2%	53.4%	18.2%	9.6%	1.6%	1537
Floridablanca	19.2%	63.4%	8.6%	7.7%	1.2%	1949
Fusagasugá	20.5%	59.7%	10.7%	6.5%	2.6%	1011
Girardot	21.2%	57.8%	10.9%	8.2%	2.0%	708
Girón	22.7%	56.6%	11.2%	7.6%	1.9%	1067
Guainía	16.7%	51.5%	19.2%	7.2%	5.4%	443
Guaviare	16.5%	48.5%	18.8%	12.8%	3.3%	756
Huila	15.9%	58.7%	14.2%	9.5%	1.7%	6158
Ibagué	19.6%	59.9%	11.4%	7.5%	1.6%	3951
Ipiales	18.2%	64.4%	10.1%	5.8%	1.6%	985
Itagüí	24.6%	55.4%	10.7%	7.7%	1.5%	1416
Jamundí	19.1%	55.1%	14.9%	9.3%	1.6%	933
La Guajira	15.1%	51.2%	18.4%	10.6%	4.7%	3214
Lorica	15.1%	52.5%	18.6%	11.6%	2.2%	1078
Magangué	20.2%	44.6%	19.8%	11.1%	4.4%	1203
Magdalena	13.8%	53.6%	17.6%	10.1%	4.9%	7253
Maicao	19.1%	46.4%	22.2%	10.0%	2.3%	1796
Malambo	14.5%	60.8%	13.5%	8.5%	2.7%	989
Manizales	20.9%	54.5%	12.7%	9.8%	2.0%	2287
Medellín	21.6%	53.1%	13.6%	9.2%	2.4%	14975
Meta	18.2%	55.6%	14.8%	8.5%	2.8%	4172
Montería	18.0%	55.2%	15.4%	9.7%	1.7%	3968
Mosquera	17.8%	58.9%	12.3%	9.5%	1.5%	839
Nariño	13.7%	63.6%	12.7%	7.2%	2.8%	7529
Neiva	19.8%	55.6%	13.7%	9.0%	1.9%	2771
Norte de Santander	16.8%	60.4%	12.6%	8.4%	1.9%	6053
Palmira	18.2%	62.7%	10.0%	6.8%	2.2%	2204
Pasto	20.1%	61.5%	10.0%	7.2%	1.2%	3214
Pereira	18.9%	57.4%	13.4%	7.7%	2.6%	3082
Piedecuesta	20.4%	61.3%	11.3%	6.0%	1.1%	1128
Pitalito	17.1%	60.1%	12.2%	9.4%	1.2%	1238
Popayán	17.0%	63.2%	10.4%	6.9%	2.6%	2065
Putumayo	14.6%	58.6%	15.2%	8.5%	3.1%	3015
Quibdó	14.3%	60.2%	15.8%	6.8%	2.9%	1228

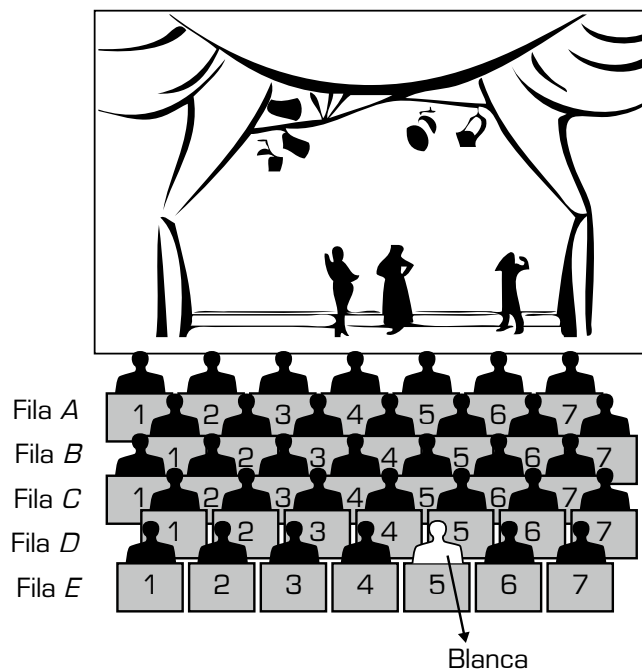
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Quindío	17.7%	53.9%	16.1%	9.4%	2.9%	1759
Riohacha	16.2%	54.4%	17.0%	9.4%	3.0%	2233
Rionegro	20.5%	58.5%	12.6%	7.0%	1.5%	826
Risaralda	17.1%	59.9%	12.7%	8.2%	2.2%	2150
Sabaneta	20.5%	57.6%	10.7%	5.1%	6.1%	375
Sahagún	19.1%	52.9%	16.1%	11.2%	0.8%	995
San Andrés	18.4%	49.2%	18.7%	10.5%	3.2%	380
Santa Marta	18.3%	54.9%	16.2%	7.7%	2.9%	4034
Santander	16.6%	61.6%	11.7%	8.2%	1.8%	6391
Sincelejo	18.0%	58.6%	11.8%	9.6%	2.0%	2280
Soacha	17.9%	61.5%	10.6%	8.5%	1.5%	3890
Sogamoso	16.3%	64.9%	9.3%	7.0%	2.5%	1104
Soledad	17.1%	63.6%	11.7%	5.8%	1.8%	4111
Sucre	16.5%	50.5%	18.4%	11.7%	2.8%	6217
Tolima	16.1%	56.6%	15.2%	9.3%	2.7%	7808
Tuluá	20.7%	57.2%	12.4%	8.0%	1.7%	1698
Tumaco	14.1%	46.8%	20.3%	12.6%	6.2%	2162
Tunja	20.2%	61.6%	10.8%	6.2%	1.2%	1245
Turbo	18.3%	43.6%	20.9%	11.6%	5.6%	1581
Uribe	16.7%	44.0%	19.7%	14.5%	5.1%	1506
Valle del Cauca	18.8%	55.4%	14.8%	8.2%	2.8%	7120
Valledupar	15.6%	58.9%	12.6%	7.6%	5.2%	3871
Vaupés	15.1%	43.6%	18.8%	15.1%	7.3%	218
Vichada	19.0%	52.6%	15.2%	9.3%	3.8%	289
Villavicencio	18.4%	60.4%	12.3%	7.1%	1.8%	4134
Yopal	21.5%	54.6%	13.4%	8.0%	2.6%	1332
Zipaquirá	17.3%	63.5%	10.2%	7.8%	1.2%	931
Colombia	17.7%	57.1%	13.9%	8.6%	2.7%	370353

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• **Pregunta 26.**

Esta es la ubicación de algunas personas que están viendo una obra de teatro.



¿Cuál es la ubicación de la silla que ocupa Blanca?

- A. Fila A silla 5
- B. Fila E silla 4
- C. Fila A silla 4
- D. Fila E silla 5

• **Estructura**

Competencia	Comunicación
Componente	Geométrico - métrico
Afirmación	Ubicar objetos con base en instrucciones referentes a dirección, distancia y posición.
Nivel de desempeño	Mínimo
Respuesta Correcta	D

• Resultados a nivel nacional y de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	15.3%	9.0%	5.7%	66.6%	3.4%	733
Antioquia	12.8%	5.9%	4.8%	72.3%	4.2%	22713
Apartadó	13.4%	7.0%	5.8%	70.7%	3.1%	1327
Arauca	9.0%	5.8%	3.6%	79.0%	2.5%	2079
Armenia	10.6%	4.7%	3.1%	79.3%	2.4%	1862
Atlántico	11.7%	8.0%	6.1%	70.0%	4.2%	4344
Barrancabermeja	8.6%	4.2%	2.7%	82.7%	1.9%	1916
Barranquilla	9.3%	5.1%	3.6%	79.7%	2.3%	8962
Bello	8.8%	4.5%	2.9%	81.8%	2.0%	3019
Bogotá, D.C.	5.7%	3.3%	2.1%	86.8%	2.1%	46465
Bolívar	16.7%	10.0%	8.6%	59.7%	5.0%	8515
Boyacá	10.8%	6.5%	5.2%	74.8%	2.7%	6395
Bucaramanga	6.7%	3.3%	2.3%	85.5%	2.3%	3879
Buenaventura	13.7%	6.7%	4.4%	71.1%	4.1%	3026
Buga	9.1%	4.9%	3.3%	79.9%	2.8%	900
Caldas	10.5%	5.3%	4.0%	77.6%	2.6%	4446
Cali	7.7%	4.3%	2.6%	82.5%	2.9%	14706
Caquetá	16.4%	6.6%	5.5%	68.3%	3.2%	2685
Cartagena	10.8%	6.1%	4.8%	74.5%	3.8%	8259
Cartago	8.4%	4.8%	3.0%	80.4%	3.4%	879
Casanare	10.9%	5.4%	3.7%	77.4%	2.5%	2279
Cauca	12.8%	6.4%	5.0%	70.5%	5.3%	9876
Cesar	12.7%	7.4%	6.3%	70.4%	3.2%	6702
Chocó	16.0%	9.9%	7.9%	60.1%	6.0%	3511
Chía	5.6%	3.1%	2.1%	88.0%	1.2%	840
Ciénaga	16.1%	7.5%	5.4%	66.9%	4.0%	1092
Cundinamarca	8.2%	4.0%	3.1%	81.9%	2.7%	11717
Córdoba	15.4%	8.9%	7.1%	65.1%	3.5%	10477
Cúcuta	8.5%	4.5%	3.8%	81.8%	1.3%	5702
Dosquebradas	7.7%	5.3%	2.3%	82.0%	2.8%	1286
Duitama	4.6%	2.6%	2.1%	89.7%	1.1%	856
Envigado	5.5%	2.6%	1.5%	89.0%	1.5%	1027
Facatativá	8.3%	3.0%	3.7%	83.5%	1.5%	1023
Florencia	12.3%	6.6%	3.8%	75.8%	1.5%	1537
Floridablanca	4.8%	3.5%	1.4%	88.8%	1.5%	1949
Fusagasugá	11.1%	3.2%	2.0%	81.8%	2.0%	1011
Girardot	11.9%	5.2%	3.8%	77.1%	2.0%	708
Girón	9.0%	5.2%	4.1%	79.7%	2.0%	1067
Guainía	15.6%	6.8%	7.9%	62.8%	7.0%	443

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Guaviare	14.9%	9.8%	4.0%	68.8%	2.5%	756
Huila	11.3%	5.8%	4.7%	76.2%	1.9%	6158
Ibagué	7.0%	3.9%	2.5%	84.9%	1.6%	3951
Ipiales	6.4%	5.8%	2.7%	83.5%	1.6%	985
Itagüí	7.4%	5.1%	4.1%	81.6%	1.8%	1416
Jamundí	14.3%	4.5%	4.2%	75.3%	1.7%	933
La Guajira	15.8%	8.9%	7.7%	62.9%	4.6%	3214
Lorica	14.5%	7.1%	9.6%	65.4%	3.4%	1078
Magangué	15.5%	9.0%	8.6%	62.8%	4.2%	1203
Magdalena	15.5%	8.4%	6.9%	63.7%	5.4%	7253
Maicao	15.7%	9.5%	7.6%	64.3%	2.9%	1796
Malambo	10.9%	6.1%	4.0%	75.7%	3.2%	989
Manizales	8.6%	3.9%	2.5%	83.2%	1.8%	2287
Medellín	9.5%	5.0%	3.2%	79.5%	2.8%	14975
Meta	11.8%	5.6%	4.2%	75.4%	3.0%	4172
Montería	13.4%	6.6%	5.1%	73.1%	1.9%	3968
Mosquera	5.6%	3.5%	2.6%	86.2%	2.1%	839
Nariño	11.5%	5.4%	3.8%	76.4%	2.9%	7529
Neiva	8.7%	4.6%	3.4%	81.4%	1.9%	2771
Norte de Santander	10.8%	5.1%	3.7%	78.4%	2.1%	6053
Palmira	6.4%	4.4%	2.6%	84.3%	2.4%	2204
Pasto	7.3%	4.0%	2.2%	84.4%	2.1%	3214
Pereira	8.6%	4.5%	2.8%	81.2%	2.9%	3082
Piedecuesta	6.9%	4.1%	3.0%	84.8%	1.2%	1128
Pitalito	10.8%	5.7%	3.8%	78.4%	1.4%	1238
Popayán	7.1%	4.1%	2.5%	83.9%	2.4%	2065
Putumayo	12.6%	6.2%	4.8%	73.1%	3.3%	3015
Quibdó	12.5%	6.8%	4.0%	73.5%	3.3%	1228
Quindío	12.1%	4.8%	3.2%	76.4%	3.5%	1759
Riohacha	13.7%	7.2%	6.0%	69.5%	3.7%	2233
Rionegro	5.9%	2.9%	1.7%	88.0%	1.5%	826
Risaralda	11.1%	5.3%	3.3%	77.8%	2.5%	2150
Sabaneta	4.8%	3.7%	2.1%	82.7%	6.7%	375
Sahagún	12.6%	9.3%	6.9%	69.9%	1.2%	995
San Andrés	10.3%	8.2%	6.1%	73.4%	2.1%	380
Santa Marta	11.1%	5.7%	3.9%	75.9%	3.3%	4034
Santander	9.8%	5.3%	4.1%	78.8%	2.0%	6391
Sincelejo	10.6%	6.1%	5.0%	76.0%	2.3%	2280
Soacha	6.6%	3.7%	3.0%	84.7%	2.0%	3890
Sogamoso	4.5%	4.2%	3.0%	85.7%	2.6%	1104

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Soledad	8.4%	4.6%	3.6%	81.6%	1.8%	4111
Sucre	16.0%	8.3%	8.1%	64.3%	3.3%	6217
Tolima	12.9%	6.1%	4.9%	73.2%	2.9%	7808
Tuluá	9.0%	4.8%	3.2%	81.3%	1.7%	1698
Tumaco	16.6%	8.6%	8.6%	59.3%	6.9%	2162
Tunja	4.9%	3.6%	3.1%	87.3%	1.0%	1245
Turbo	17.5%	10.4%	7.3%	59.3%	5.5%	1581
Uribe	16.3%	11.0%	10.4%	56.5%	5.8%	1506
Valle del Cauca	11.1%	4.8%	4.1%	77.2%	2.8%	7120
Valledupar	10.3%	5.9%	3.7%	74.8%	5.1%	3871
Vaupés	21.1%	7.3%	10.6%	56.4%	4.6%	218
Vichada	18.3%	4.8%	3.5%	70.2%	3.1%	289
Villavicencio	6.6%	4.4%	2.5%	84.8%	1.7%	4134
Yopal	7.5%	5.0%	2.6%	82.5%	2.5%	1332
Zipaquirá	7.1%	3.7%	1.9%	85.7%	1.6%	931
Colombia	10.4%	5.6%	4.2%	76.9%	3.0%	370353

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 27.

Sofía y Manuel concursaron en 4 pruebas de habilidades artísticas. Estos fueron los puntajes obtenidos por cada uno.

<i>Prueba</i>	<i>Puntajes de Sofía</i>	<i>Puntajes de Manuel</i>
Dibujo	8	8
Canto	6	5
Actuación	7	7
Baile	9	9

¿En qué prueba obtuvieron puntajes diferentes?

- A. Dibujo.
- B. Canto.
- C. Actuación.
- D. Baile.

• Estructura

Competencia	Comunicación
Componente	Aleatorio
Afirmación	Describir características de un conjunto a partir de los datos que lo representan.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	B

• Resultados a nivel nacional y de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Amazonas	12.0%	59.2%	9.0%	17.7%	2.0%	733
Antioquia	9.5%	66.2%	7.2%	13.6%	3.5%	22713
Apartadó	13.1%	63.5%	7.5%	13.8%	2.1%	1327
Arauca	7.8%	71.3%	6.7%	12.4%	1.7%	2079
Armenia	6.2%	74.1%	5.7%	12.4%	1.6%	1862
Atlántico	10.6%	61.8%	9.2%	15.1%	3.3%	4344

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Barrancabermeja	7.0%	74.8%	5.5%	11.5%	1.2%	1916
Barranquilla	8.3%	72.7%	6.2%	10.6%	2.2%	8962
Bello	6.7%	77.2%	5.3%	9.1%	1.7%	3019
Bogotá, D.C.	4.7%	82.5%	4.0%	7.0%	1.8%	46465
Bolívar	15.4%	48.9%	11.1%	20.8%	3.8%	8515
Boyacá	8.4%	68.3%	7.3%	13.7%	2.3%	6395
Bucaramanga	5.5%	80.5%	4.8%	7.3%	1.8%	3879
Buenaventura	11.6%	65.5%	7.1%	12.7%	3.1%	3026
Buga	6.6%	72.1%	6.2%	12.9%	2.2%	900
Caldas	7.8%	70.4%	6.0%	13.5%	2.3%	4446
Cali	6.3%	77.3%	5.1%	8.8%	2.5%	14706
Caquetá	11.3%	62.9%	6.8%	16.1%	2.9%	2685
Cartagena	9.9%	67.4%	7.3%	12.4%	3.0%	8259
Cartago	6.6%	74.9%	5.3%	10.2%	3.0%	879
Casanare	7.5%	70.0%	6.7%	13.7%	2.0%	2279
Cauca	9.3%	64.9%	6.7%	14.4%	4.7%	9876
Cesar	11.2%	63.1%	7.4%	15.8%	2.5%	6702
Chocó	15.0%	52.9%	9.6%	17.4%	5.1%	3511
Chía	3.8%	86.1%	4.4%	5.1%	0.6%	840
Ciénaga	10.3%	63.8%	7.2%	15.8%	2.8%	1092
Cundinamarca	6.0%	76.6%	5.5%	9.7%	2.2%	11717
Córdoba	13.8%	56.4%	9.8%	17.6%	2.5%	10477
Cúcuta	7.2%	73.6%	6.3%	11.8%	1.1%	5702
Dosquebradas	4.9%	77.8%	5.7%	8.9%	2.7%	1286
Duitama	2.3%	86.0%	4.1%	6.8%	0.8%	856
Envigado	3.7%	85.4%	3.3%	5.9%	1.7%	1027
Facatativá	6.1%	79.3%	5.1%	8.4%	1.2%	1023
Florencia	9.3%	66.9%	8.8%	13.6%	1.4%	1537
Floridablanca	5.0%	84.1%	3.5%	6.3%	1.1%	1949
Fusagasugá	6.6%	75.5%	5.5%	11.0%	1.4%	1011
Girardot	9.0%	71.3%	7.6%	10.7%	1.3%	708
Girón	7.8%	73.3%	6.4%	10.9%	1.7%	1067
Guainía	11.1%	54.0%	7.0%	21.9%	6.1%	443
Guaviare	13.9%	63.0%	6.5%	14.0%	2.6%	756
Huila	8.2%	68.8%	7.1%	14.5%	1.4%	6158
Ibagué	6.1%	78.2%	5.3%	9.0%	1.4%	3951
Ipiales	3.7%	79.5%	4.7%	11.3%	0.9%	985
Itagüí	8.2%	75.9%	4.8%	9.9%	1.2%	1416
Jamundí	8.7%	69.0%	7.9%	13.2%	1.2%	933
La Guajira	12.9%	55.7%	10.0%	17.0%	4.4%	3214

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Lorica	14.3%	56.1%	9.9%	17.0%	2.7%	1078
Magangué	14.5%	50.0%	10.4%	21.3%	3.7%	1203
Magdalena	13.6%	55.2%	9.4%	17.7%	4.1%	7253
Maicao	16.1%	54.5%	8.4%	19.3%	1.8%	1796
Malambo	9.5%	67.8%	6.8%	14.1%	1.8%	989
Manizales	5.9%	78.1%	4.9%	9.3%	1.9%	2287
Medellín	7.9%	74.2%	5.9%	9.7%	2.2%	14975
Meta	9.2%	68.5%	6.4%	13.8%	2.2%	4172
Montería	11.5%	63.3%	9.1%	14.5%	1.6%	3968
Mosquera	4.9%	80.8%	4.5%	8.0%	1.8%	839
Nariño	7.6%	72.0%	5.6%	12.3%	2.4%	7529
Neiva	9.5%	71.3%	5.5%	12.3%	1.4%	2771
Norte de Santander	7.8%	72.4%	5.6%	12.7%	1.5%	6053
Palmira	6.1%	78.2%	4.9%	9.0%	1.8%	2204
Pasto	5.2%	79.2%	4.3%	9.7%	1.6%	3214
Pereira	7.0%	76.7%	5.1%	8.9%	2.4%	3082
Piedecuesta	5.6%	79.6%	5.4%	8.2%	1.2%	1128
Pitalito	8.6%	70.2%	5.9%	14.5%	0.8%	1238
Popayán	5.2%	78.6%	4.7%	9.0%	2.5%	2065
Putumayo	9.7%	64.8%	7.8%	14.9%	2.8%	3015
Quibdó	10.5%	65.3%	9.0%	13.4%	1.8%	1228
Quindío	9.6%	68.3%	6.5%	13.0%	2.6%	1759
Riohacha	11.6%	62.2%	7.3%	16.3%	2.7%	2233
Rionegro	7.0%	79.8%	4.1%	8.1%	1.0%	826
Risaralda	7.2%	70.1%	6.3%	14.7%	1.7%	2150
Sabaneta	5.6%	78.4%	2.4%	7.5%	6.1%	375
Sahagún	9.9%	64.5%	10.2%	15.0%	0.4%	995
San Andrés	14.7%	62.1%	7.6%	12.9%	2.6%	380
Santa Marta	8.9%	68.9%	6.0%	13.5%	2.7%	4034
Santander	7.6%	74.0%	5.7%	11.1%	1.5%	6391
Sincelejo	9.6%	67.1%	8.2%	13.2%	1.8%	2280
Soacha	5.6%	81.0%	4.9%	6.9%	1.6%	3890
Sogamoso	6.3%	80.8%	3.9%	6.6%	2.4%	1104
Soledad	7.9%	74.0%	6.2%	10.4%	1.5%	4111
Sucre	14.7%	53.2%	11.3%	18.3%	2.6%	6217
Tolima	9.6%	65.1%	7.2%	15.8%	2.4%	7808
Tuluá	6.4%	76.8%	5.8%	9.9%	1.2%	1698
Tumaco	15.3%	50.6%	8.9%	18.9%	6.4%	2162
Tunja	5.1%	83.1%	4.3%	6.4%	1.1%	1245
Turbo	16.1%	48.7%	12.5%	17.9%	4.9%	1581

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Uribe	22.2%	46.2%	8.6%	19.5%	3.5%	1506
Valle del Cauca	7.3%	70.7%	6.8%	12.7%	2.5%	7120
Valledupar	7.9%	70.2%	5.4%	11.7%	4.8%	3871
Vaupés	10.1%	50.0%	14.2%	20.2%	5.5%	218
Vichada	11.4%	62.6%	7.6%	15.9%	2.4%	289
Villavicencio	6.0%	78.8%	4.4%	9.1%	1.6%	4134
Yopal	8.4%	76.1%	4.2%	9.4%	1.9%	1332
Zipaquirá	5.8%	81.8%	3.8%	7.6%	1.0%	931
Colombia	8.5%	70.5%	6.5%	12.1%	2.4%	370353

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• **Pregunta 28.**

La cantidad de veces que Marleny, Henry, Edison y Laura izaron bandera durante el año, se muestra en la tabla.

<i>Nombre</i>	<i>Número de veces</i>
Marleny	3
Henry	2
Edison	5
Laura	1

Tabla

¿Quién izó bandera más veces?

- A. Marleny.
- B. Henry.
- C. Edison.
- D. Laura.

• **Estructura**

Competencia	Razonamiento
Componente	Aleatorio
Afirmación	Describir tendencias que se presentan en un conjunto a partir de los datos que lo describen.
Nivel de desempeño	Mínimo
Respuesta Correcta	C

• **Resultados a nivel nacional y de Entidad Territorial certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	8.0%	10.6%	73.0%	5.6%	2.7%	733
Antioquia	6.0%	6.3%	78.9%	5.0%	3.9%	22713
Apartadó	5.9%	7.4%	77.1%	6.7%	2.9%	1327
Arauca	4.9%	4.5%	83.6%	4.9%	2.2%	2079
Armenia	5.3%	4.9%	83.9%	3.7%	2.2%	1862
Atlántico	7.0%	8.1%	74.6%	6.5%	3.7%	4344

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Barrancabermeja	4.3%	4.9%	86.8%	2.7%	1.3%	1916
Barranquilla	5.4%	5.3%	83.0%	3.9%	2.4%	8962
Bello	4.4%	4.9%	85.6%	3.3%	1.8%	3019
Bogotá, D.C.	3.6%	3.7%	88.3%	2.5%	1.9%	46465
Bolívar	9.7%	11.7%	65.0%	9.7%	4.0%	8515
Boyacá	5.4%	6.1%	81.2%	4.7%	2.6%	6395
Bucaramanga	3.4%	3.7%	88.7%	2.2%	2.0%	3879
Buenaventura	6.2%	7.3%	78.6%	5.3%	2.7%	3026
Buga	3.3%	5.9%	84.8%	3.8%	2.2%	900
Caldas	4.8%	5.7%	83.2%	3.9%	2.4%	4446
Cali	4.3%	4.6%	85.4%	3.1%	2.6%	14706
Caquetá	5.9%	5.8%	78.4%	6.8%	3.2%	2685
Cartagena	6.2%	6.6%	79.1%	5.1%	3.1%	8259
Cartago	4.0%	6.1%	83.6%	3.4%	2.8%	879
Casanare	5.0%	5.5%	82.6%	4.0%	2.8%	2279
Cauca	5.9%	6.3%	77.8%	5.4%	4.6%	9876
Cesar	6.3%	7.4%	77.1%	6.5%	2.8%	6702
Chocó	10.4%	11.5%	63.2%	9.7%	5.3%	3511
Chía	2.6%	4.4%	90.6%	1.3%	1.1%	840
Ciénaga	7.1%	10.8%	72.5%	6.5%	3.1%	1092
Cundinamarca	4.1%	4.7%	85.7%	3.1%	2.4%	11717
Córdoba	7.6%	8.9%	72.6%	7.9%	3.0%	10477
Cúcuta	4.2%	5.6%	85.6%	3.4%	1.2%	5702
Dosquebradas	3.6%	4.1%	86.8%	2.7%	2.8%	1286
Duitama	2.3%	2.9%	92.6%	1.4%	0.7%	856
Envigado	2.4%	3.1%	90.7%	1.8%	2.0%	1027
Facatativá	4.3%	4.3%	86.4%	3.4%	1.6%	1023
Florencia	5.8%	7.4%	81.1%	4.4%	1.4%	1537
Floridablanca	2.9%	3.3%	90.8%	1.8%	1.1%	1949
Fusagasugá	4.3%	5.0%	85.8%	3.3%	1.7%	1011
Girardot	6.4%	5.5%	82.1%	4.2%	1.8%	708
Girón	5.2%	5.9%	83.9%	3.0%	2.0%	1067
Guainía	9.3%	6.5%	71.6%	6.3%	6.3%	443
Guaviare	9.0%	9.3%	71.8%	6.3%	3.6%	756
Huila	5.5%	5.4%	82.8%	4.6%	1.6%	6158
Ibagué	4.6%	4.6%	86.6%	2.8%	1.5%	3951
Ipiales	3.8%	3.0%	89.1%	2.6%	1.4%	985
Itagüí	4.2%	6.1%	84.7%	3.5%	1.6%	1416
Jamundí	5.1%	5.8%	84.2%	3.1%	1.7%	933
La Guajira	8.5%	9.8%	68.9%	8.5%	4.2%	3214

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Lorica	9.4%	8.3%	71.5%	8.1%	2.8%	1078
Magangué	9.3%	11.5%	65.4%	9.5%	4.3%	1203
Magdalena	8.2%	9.3%	69.8%	8.3%	4.4%	7253
Maicao	7.5%	10.5%	69.9%	9.8%	2.3%	1796
Malambo	5.7%	6.7%	78.6%	6.2%	2.9%	989
Manizales	4.7%	3.9%	86.0%	3.2%	2.1%	2287
Medellín	5.2%	5.6%	83.1%	3.6%	2.5%	14975
Meta	5.2%	6.3%	80.9%	5.1%	2.5%	4172
Montería	6.4%	8.0%	77.2%	6.3%	2.1%	3968
Mosquera	4.2%	3.7%	87.4%	2.9%	1.9%	839
Nariño	5.2%	4.9%	83.2%	4.2%	2.6%	7529
Neiva	5.3%	4.9%	84.1%	4.2%	1.6%	2771
Norte de Santander	4.1%	4.8%	85.6%	3.7%	1.8%	6053
Palmira	3.1%	4.3%	87.3%	2.8%	2.5%	2204
Pasto	3.5%	3.0%	88.8%	3.1%	1.5%	3214
Pereira	4.5%	4.5%	85.2%	3.1%	2.7%	3082
Piedecuesta	3.5%	4.3%	87.9%	3.5%	0.8%	1128
Pitalito	5.1%	5.3%	83.7%	4.4%	1.5%	1238
Popayán	3.6%	3.5%	87.8%	2.3%	2.7%	2065
Putumayo	5.8%	6.3%	79.7%	4.9%	3.2%	3015
Quibdó	5.5%	9.0%	78.3%	5.6%	1.5%	1228
Quindío	5.3%	5.7%	80.2%	5.5%	3.2%	1759
Riohacha	7.2%	7.7%	74.8%	7.7%	2.5%	2233
Rionegro	4.8%	4.4%	87.7%	2.3%	0.8%	826
Risaralda	5.6%	5.8%	81.3%	5.3%	2.1%	2150
Sabaneta	2.9%	3.5%	84.5%	2.7%	6.4%	375
Sahagún	6.8%	8.1%	77.8%	6.3%	0.9%	995
San Andrés	6.1%	9.5%	77.1%	5.5%	1.8%	380
Santa Marta	5.8%	5.9%	80.6%	4.9%	2.9%	4034
Santander	4.0%	4.9%	85.4%	4.1%	1.6%	6391
Sincelejo	6.1%	7.1%	80.4%	4.6%	1.9%	2280
Soacha	4.0%	4.4%	87.6%	2.5%	1.6%	3890
Sogamoso	3.2%	4.6%	86.9%	2.7%	2.6%	1104
Soledad	4.8%	4.8%	85.0%	3.8%	1.6%	4111
Sucre	8.0%	10.3%	70.0%	8.9%	2.8%	6217
Tolima	5.6%	6.6%	79.9%	5.4%	2.6%	7808
Tuluá	3.9%	4.3%	86.9%	3.5%	1.3%	1698
Tumaco	8.7%	10.5%	66.0%	9.1%	5.6%	2162
Tunja	3.6%	3.7%	88.8%	2.7%	1.1%	1245
Turbo	10.0%	10.1%	65.8%	9.3%	4.9%	1581

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Uribe	10.4%	12.9%	60.5%	11.8%	4.4%	1506
Valle del Cauca	5.0%	5.5%	82.9%	4.0%	2.5%	7120
Valledupar	5.0%	5.3%	80.8%	4.0%	5.0%	3871
Vaupés	15.6%	8.7%	57.8%	11.9%	6.0%	218
Vichada	7.3%	7.3%	78.2%	4.2%	3.1%	289
Villavicencio	3.6%	4.2%	87.3%	2.9%	1.9%	4134
Yopal	4.7%	4.9%	85.7%	2.9%	2.0%	1332
Zipaquirá	3.2%	3.4%	90.0%	1.7%	1.6%	931
Colombia	5.4%	5.9%	81.5%	4.6%	2.6%	370353

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.



• Pregunta 29.

En la tabla se relaciona la cantidad de peces que hay en un estanque, a medida que transcurren 4 días.

<i>Día</i>	<i>Cantidad de peces</i>
1	523
2	154
3	92
4	81

Tabla

Al observar la tabla, a medida que aumenta el número de días, la cantidad de peces

- A. aumenta.
- B. disminuye.
- C. se mantiene igual.
- D. se reduce a la mitad.

• Estructura

Competencia	Razonamiento
Componente	Aleatorio
Afirmación	Describir tendencias que se presentan en un conjunto a partir de los datos que lo describen.
Nivel de desempeño	Avanzado
Respuesta Correcta	B

• Resultados a nivel nacional y de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Amazonas	37.0%	32.3%	14.3%	12.6%	3.8%	733
Antioquia	30.2%	42.6%	10.0%	13.2%	3.9%	22713
Apartadó	29.8%	38.6%	12.7%	16.4%	2.5%	1327
Arauca	30.5%	43.6%	10.0%	13.2%	2.7%	2079
Armenia	30.6%	46.2%	8.6%	12.0%	2.6%	1862
Atlántico	27.1%	44.8%	11.2%	13.0%	3.9%	4344
Barrancabermeja	26.5%	49.3%	9.0%	13.4%	1.8%	1916
Barranquilla	28.5%	47.0%	9.4%	12.4%	2.8%	8962
Bello	30.6%	49.3%	7.8%	10.1%	2.2%	3019

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Bogotá, D.C.	25.4%	57.0%	6.5%	8.8%	2.3%	46465
Bolívar	27.7%	34.1%	16.7%	17.1%	4.5%	8515
Boyacá	28.6%	45.8%	10.9%	11.8%	2.9%	6395
Bucaramanga	26.2%	55.1%	7.2%	9.0%	2.5%	3879
Buenaventura	28.9%	45.3%	9.5%	12.7%	3.6%	3026
Buga	28.6%	47.4%	9.0%	12.0%	3.0%	900
Caldas	29.3%	44.8%	10.0%	13.5%	2.4%	4446
Cali	28.9%	50.3%	7.3%	10.5%	3.0%	14706
Caquetá	32.3%	40.9%	11.7%	11.9%	3.2%	2685
Cartagena	24.7%	47.6%	10.9%	13.5%	3.2%	8259
Cartago	28.4%	46.3%	9.3%	12.5%	3.4%	879
Casanare	33.7%	41.6%	10.6%	11.2%	2.8%	2279
Cauca	26.8%	47.4%	10.3%	10.5%	5.1%	9876
Cesar	28.4%	43.0%	11.8%	13.8%	3.0%	6702
Chocó	26.2%	37.7%	15.2%	15.1%	5.8%	3511
Chía	23.1%	62.1%	4.9%	8.5%	1.4%	840
Ciénaga	27.5%	44.7%	13.1%	10.5%	4.2%	1092
Cundinamarca	25.6%	52.9%	7.8%	11.1%	2.6%	11717
Córdoba	27.7%	39.1%	13.7%	16.5%	2.9%	10477
Cúcuta	29.2%	47.3%	9.5%	12.5%	1.5%	5702
Dosquebradas	29.9%	48.4%	7.7%	10.7%	3.3%	1286
Duitama	24.4%	63.1%	4.6%	6.7%	1.3%	856
Envigado	22.5%	63.6%	4.5%	7.4%	2.0%	1027
Facatativá	30.7%	51.9%	6.3%	9.1%	2.1%	1023
Florencia	32.0%	38.8%	11.5%	16.1%	1.6%	1537
Floridablanca	23.3%	60.3%	6.1%	8.4%	1.9%	1949
Fusagasugá	28.4%	50.8%	7.4%	11.0%	2.4%	1011
Girardot	29.1%	46.3%	9.3%	13.1%	2.1%	708
Girón	31.2%	44.6%	10.2%	12.0%	2.0%	1067
Guainía	29.6%	30.9%	13.1%	19.9%	6.5%	443
Guaviare	34.5%	34.8%	14.8%	12.6%	3.3%	756
Huila	30.8%	43.7%	10.3%	13.3%	1.9%	6158
Ibagué	27.3%	53.0%	7.1%	10.9%	1.7%	3951
Ipiales	29.3%	52.6%	7.6%	9.1%	1.3%	985
Itagüí	32.1%	48.3%	7.5%	10.6%	1.5%	1416
Jamundí	30.3%	43.3%	10.2%	14.1%	2.0%	933
La Guajira	23.1%	44.2%	14.1%	14.0%	4.7%	3214
Lorica	28.0%	40.3%	13.7%	15.7%	2.3%	1078
Magangué	29.3%	30.2%	17.3%	19.3%	4.0%	1203
Magdalena	25.8%	42.1%	12.9%	14.4%	4.8%	7253

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Maicao	27.9%	38.2%	14.1%	17.3%	2.4%	1796
Malambo	24.3%	49.3%	11.5%	11.9%	2.9%	989
Manizales	27.4%	51.2%	7.4%	11.6%	2.3%	2287
Medellín	31.0%	46.5%	8.3%	11.5%	2.8%	14975
Meta	31.4%	40.9%	11.3%	13.5%	3.0%	4172
Montería	30.5%	40.9%	11.8%	14.5%	2.3%	3968
Mosquera	26.0%	55.3%	6.6%	9.9%	2.3%	839
Nariño	26.5%	52.4%	8.8%	9.3%	3.0%	7529
Neiva	32.0%	43.2%	9.5%	13.1%	2.1%	2771
Norte de Santander	26.2%	49.1%	9.8%	13.3%	1.7%	6053
Palmira	28.1%	53.0%	6.6%	9.8%	2.5%	2204
Pasto	30.9%	52.3%	6.9%	8.0%	2.0%	3214
Pereira	28.9%	50.4%	7.9%	9.7%	3.1%	3082
Piedecuesta	25.4%	54.2%	8.1%	11.3%	1.2%	1128
Pitalito	34.2%	42.8%	8.0%	14.0%	1.1%	1238
Popayán	29.6%	53.2%	6.2%	8.5%	2.5%	2065
Putumayo	30.5%	42.6%	10.6%	13.1%	3.2%	3015
Quibdó	27.0%	47.3%	11.0%	12.1%	2.6%	1228
Quindío	29.7%	43.6%	9.6%	13.7%	3.4%	1759
Riohacha	26.2%	44.2%	12.2%	14.3%	3.1%	2233
Rionegro	29.4%	51.5%	7.6%	10.5%	1.0%	826
Risaralda	32.2%	44.4%	8.5%	12.3%	2.6%	2150
Sabaneta	24.3%	55.5%	5.9%	8.0%	6.4%	375
Sahagún	32.1%	41.7%	11.5%	14.0%	0.8%	995
San Andrés	28.7%	41.8%	12.6%	14.7%	2.1%	380
Santa Marta	28.4%	44.6%	9.7%	13.8%	3.4%	4034
Santander	25.4%	51.2%	9.3%	12.3%	1.9%	6391
Sincelejo	28.0%	44.0%	10.7%	14.8%	2.5%	2280
Soacha	28.3%	52.1%	7.7%	10.0%	1.9%	3890
Sogamoso	26.7%	55.3%	6.6%	8.6%	2.8%	1104
Soledad	27.3%	51.9%	7.9%	11.2%	1.6%	4111
Sucre	28.9%	35.6%	15.9%	16.7%	2.9%	6217
Tolima	28.8%	42.8%	11.4%	14.1%	2.9%	7808
Tuluá	29.5%	48.1%	8.3%	12.4%	1.7%	1698
Tumaco	26.0%	36.0%	14.8%	17.0%	6.1%	2162
Tunja	24.7%	59.2%	6.6%	8.0%	1.5%	1245
Turbo	25.9%	30.2%	17.0%	21.5%	5.4%	1581
Uribe	23.2%	34.9%	16.5%	21.3%	4.1%	1506
Valle del Cauca	32.3%	42.4%	9.6%	12.8%	2.9%	7120
Valledupar	27.8%	45.3%	9.5%	12.3%	5.0%	3871

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Vaupés	30.7%	29.4%	15.1%	19.3%	5.5%	218
Vichada	31.5%	30.4%	13.8%	20.8%	3.5%	289
Villavicencio	27.4%	54.0%	7.0%	9.7%	1.9%	4134
Yopal	28.8%	46.2%	9.3%	13.6%	2.0%	1332
Zipaquirá	26.0%	55.7%	7.3%	9.5%	1.5%	931
Colombia	28.1%	47.2%	9.7%	12.2%	2.9%	370353

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 30.

Don Jaime hace y vende helados. Esta semana ha vendido 45 de mora, 5 de lulo, 3 de guayaba y 1 de curuba.

Si él quiere vender más, debe hacer más helados de

- A. mora.
- B. lulo.
- C. guayaba.
- D. curuba.

• Estructura

Competencia	Resolución
Componente	Aleatorio
Afirmación	Resolver situaciones que requieren estimar grados de posibilidad de ocurrencia de eventos.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	A

• Resultados a nivel nacional y de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Amazonas	52.4%	12.6%	10.5%	21.3%	3.3%	733
Antioquia	58.7%	8.2%	7.7%	21.3%	4.1%	22713
Apartadó	55.5%	10.2%	9.7%	22.1%	2.6%	1327
Arauca	60.6%	6.8%	7.6%	22.5%	2.6%	2079
Armenia	56.4%	7.8%	6.0%	27.3%	2.5%	1862
Atlántico	56.1%	11.1%	9.7%	19.2%	3.8%	4344
Barrancabermeja	60.4%	6.4%	6.8%	24.9%	1.4%	1916
Barranquilla	57.3%	7.9%	6.5%	25.3%	3.0%	8962
Bello	58.5%	7.2%	4.5%	27.4%	2.4%	3019
Bogotá, D.C.	54.7%	5.9%	5.2%	31.7%	2.5%	46465
Bolívar	52.1%	13.0%	12.1%	17.7%	5.1%	8515
Boyacá	55.2%	8.0%	7.8%	26.1%	2.9%	6395

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Bucaramanga	57.4%	5.1%	5.2%	29.9%	2.3%	3879
Buenaventura	62.4%	8.5%	6.3%	19.0%	3.8%	3026
Buga	59.8%	5.2%	4.8%	27.2%	3.0%	900
Caldas	59.8%	6.8%	6.4%	24.3%	2.7%	4446
Cali	57.9%	6.4%	5.4%	27.0%	3.2%	14706
Caquetá	63.0%	9.6%	8.0%	16.4%	3.1%	2685
Cartagena	58.0%	8.7%	7.3%	22.4%	3.5%	8259
Cartago	57.7%	6.7%	6.0%	26.5%	3.1%	879
Casanare	59.4%	7.7%	7.3%	22.6%	3.0%	2279
Cauca	64.8%	7.5%	6.8%	15.7%	5.3%	9876
Cesar	61.9%	9.7%	8.3%	17.1%	3.1%	6702
Chocó	56.4%	11.8%	11.4%	14.5%	5.9%	3511
Chía	55.2%	6.4%	4.2%	32.3%	1.9%	840
Ciénaga	56.8%	11.8%	7.6%	20.0%	3.8%	1092
Cundinamarca	55.9%	6.7%	6.1%	28.6%	2.7%	11717
Córdoba	56.5%	10.9%	11.8%	17.5%	3.2%	10477
Cúcuta	60.3%	7.3%	6.4%	24.4%	1.6%	5702
Dosquebradas	52.9%	6.4%	5.2%	31.8%	3.7%	1286
Duitama	62.5%	4.1%	4.0%	28.5%	0.9%	856
Envigado	59.7%	5.2%	4.4%	28.9%	1.9%	1027
Facatativá	49.8%	7.4%	7.3%	33.4%	2.1%	1023
Florencia	58.7%	8.9%	7.2%	23.2%	2.0%	1537
Floridablanca	61.7%	5.1%	4.3%	27.4%	1.5%	1949
Fusagasugá	55.4%	6.1%	5.6%	30.8%	2.1%	1011
Girardot	53.5%	8.3%	9.0%	26.4%	2.7%	708
Girón	55.9%	7.4%	5.7%	28.7%	2.3%	1067
Guainía	54.6%	11.7%	7.9%	18.3%	7.4%	443
Guaviare	55.3%	10.3%	7.7%	23.1%	3.6%	756
Huila	62.9%	8.0%	6.7%	20.7%	1.7%	6158
Ibagué	58.5%	7.0%	5.2%	27.6%	1.8%	3951
Ipiales	61.5%	5.9%	5.2%	25.9%	1.5%	985
Itagüí	57.1%	8.7%	6.4%	26.1%	1.7%	1416
Jamundí	59.7%	8.3%	7.3%	23.2%	1.6%	933
La Guajira	53.5%	12.4%	11.1%	18.1%	4.9%	3214
Lorica	55.2%	12.2%	11.4%	18.0%	3.2%	1078
Magangué	51.6%	14.0%	12.1%	18.8%	3.5%	1203
Magdalena	56.4%	12.2%	10.4%	16.2%	4.8%	7253
Maicao	55.0%	10.5%	12.0%	19.6%	3.0%	1796
Malambo	63.3%	8.7%	7.6%	17.2%	3.2%	989
Manizales	55.9%	6.4%	6.3%	29.3%	2.1%	2287

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Medellín	54.3%	7.3%	6.4%	28.8%	3.2%	14975
Meta	58.0%	8.3%	6.9%	23.6%	3.2%	4172
Montería	55.2%	10.5%	10.3%	21.8%	2.2%	3968
Mosquera	54.9%	4.5%	5.4%	32.3%	2.9%	839
Nariño	69.4%	6.3%	5.6%	15.7%	3.0%	7529
Neiva	58.5%	8.8%	6.4%	23.5%	2.7%	2771
Norte de Santander	64.1%	7.2%	5.6%	21.1%	2.1%	6053
Palmira	59.4%	5.8%	5.4%	27.0%	2.4%	2204
Pasto	56.0%	5.8%	5.4%	30.5%	2.4%	3214
Pereira	59.4%	5.7%	4.8%	26.4%	3.7%	3082
Piedecuesta	57.5%	6.3%	4.9%	29.9%	1.4%	1128
Pitalito	62.6%	7.9%	6.1%	22.1%	1.4%	1238
Popayán	61.4%	5.4%	5.0%	25.5%	2.7%	2065
Putumayo	60.9%	8.2%	7.2%	20.2%	3.6%	3015
Quibdó	62.6%	8.1%	8.1%	18.4%	2.8%	1228
Quindío	55.4%	8.0%	6.7%	26.2%	3.7%	1759
Riohacha	59.7%	9.1%	10.8%	17.2%	3.2%	2233
Rionegro	56.9%	5.6%	6.2%	30.1%	1.2%	826
Risaralda	62.9%	7.2%	5.8%	21.6%	2.5%	2150
Sabaneta	49.3%	6.4%	2.9%	34.4%	6.9%	375
Sahagún	57.5%	11.9%	9.3%	20.6%	0.7%	995
San Andrés	50.5%	12.9%	7.4%	25.5%	3.7%	380
Santa Marta	57.9%	8.6%	6.7%	22.9%	3.9%	4034
Santander	61.0%	6.7%	5.6%	24.6%	2.0%	6391
Sincelejo	56.0%	10.3%	9.7%	21.9%	2.1%	2280
Soacha	52.0%	6.1%	6.0%	33.5%	2.4%	3890
Sogamoso	57.0%	6.6%	8.2%	25.5%	2.8%	1104
Soledad	63.5%	7.0%	6.0%	21.5%	2.0%	4111
Sucre	55.9%	11.9%	11.5%	17.6%	3.1%	6217
Tolima	58.6%	8.5%	7.6%	22.5%	2.8%	7808
Tuluá	56.2%	6.8%	5.9%	29.2%	1.9%	1698
Tumaco	51.9%	11.9%	11.2%	17.7%	7.3%	2162
Tunja	58.0%	5.7%	6.0%	28.8%	1.4%	1245
Turbo	53.2%	12.5%	11.3%	17.5%	5.6%	1581
Uribe	46.6%	12.0%	20.1%	16.7%	4.6%	1506
Valle del Cauca	57.7%	8.1%	6.2%	25.1%	2.9%	7120
Valledupar	59.2%	7.9%	6.5%	21.2%	5.2%	3871
Vaupés	47.2%	9.2%	15.1%	22.9%	5.5%	218
Vichada	55.4%	8.7%	8.3%	24.2%	3.5%	289
Villavicencio	60.1%	6.2%	5.5%	26.3%	1.9%	4134

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Yopal	57.4%	6.8%	6.6%	26.8%	2.4%	1332
Zipaquirá	56.8%	5.2%	5.9%	30.5%	1.6%	931
Colombia	57.8%	7.9%	7.1%	24.1%	3.1%	370353

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 31.

Martín y sus amigos están jugando baloncesto. Observa el número de cestas obtenidas por cada uno.

<i>Nombre</i>	<i>Número de cestas anotadas</i>
Martín	2
Liliana	3
Pedro	5
Ruth	8
Pablo	9

Tabla

El menor y el mayor número de cestas anotadas son

- A. 1 y 9.
- B. 2 y 9.
- C. 3 y 8.
- D. 3 y 10.

• Estructura

Competencia	Razonamiento
Componente	Aleatorio
Afirmación	Describir tendencias que se presentan en un conjunto a partir de los datos que lo describen.
Nivel de desempeño	Avanzado
Respuesta Correcta	B

• Resultados a nivel nacional y de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Amazonas	13.2%	42.3%	13.4%	28.4%	2.7%	733
Antioquia	13.8%	51.1%	8.4%	22.3%	4.3%	22713
Apartadó	15.6%	51.1%	8.4%	22.2%	2.7%	1327
Arauca	13.1%	54.7%	9.3%	20.3%	2.5%	2079
Armenia	14.3%	57.1%	7.6%	18.3%	2.7%	1862
Atlántico	13.5%	49.8%	10.8%	22.0%	3.9%	4344

Continúa en la siguiente página

SABER 3 - MATEMÁTICAS

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Barrancabermeja	12.1%	58.7%	8.1%	19.2%	1.9%	1916
Barranquilla	14.3%	54.4%	8.9%	19.4%	3.0%	8962
Bello	14.0%	58.6%	7.8%	17.2%	2.5%	3019
Bogotá, D.C.	11.1%	65.8%	6.8%	13.6%	2.7%	46465
Bolívar	14.6%	39.5%	11.9%	28.8%	5.2%	8515
Boyacá	12.1%	54.9%	9.5%	20.5%	3.0%	6395
Bucaramanga	11.5%	64.6%	6.9%	14.5%	2.5%	3879
Buenaventura	13.8%	52.7%	7.7%	21.3%	4.4%	3026
Buga	13.2%	54.4%	9.1%	20.0%	3.2%	900
Caldas	13.5%	53.7%	8.7%	21.1%	3.0%	4446
Cali	13.5%	59.1%	7.1%	16.8%	3.4%	14706
Caquetá	14.5%	49.2%	9.2%	23.5%	3.6%	2685
Cartagena	13.7%	54.7%	8.7%	19.5%	3.5%	8259
Cartago	13.4%	55.4%	9.6%	18.3%	3.3%	879
Casanare	13.5%	51.6%	10.1%	21.9%	2.9%	2279
Cauca	12.1%	52.4%	7.7%	22.3%	5.5%	9876
Cesar	13.4%	53.0%	9.8%	20.8%	3.0%	6702
Chocó	14.5%	41.0%	11.6%	26.6%	6.2%	3511
Chía	12.3%	67.6%	7.6%	10.5%	2.0%	840
Ciénaga	12.4%	51.8%	7.2%	24.8%	3.8%	1092
Cundinamarca	11.6%	60.6%	8.3%	16.6%	2.9%	11717
Córdoba	14.0%	44.6%	11.5%	26.2%	3.7%	10477
Cúcuta	13.8%	58.3%	8.5%	17.8%	1.6%	5702
Dosquebradas	15.0%	53.1%	9.7%	18.7%	3.5%	1286
Duitama	9.7%	68.6%	6.4%	14.1%	1.2%	856
Envigado	10.4%	72.0%	4.8%	10.7%	2.1%	1027
Facatativá	9.4%	59.8%	8.9%	20.0%	1.9%	1023
Florencia	15.2%	50.6%	9.3%	22.6%	2.4%	1537
Floridablanca	10.4%	68.7%	7.5%	11.5%	1.9%	1949
Fusagasugá	12.5%	58.1%	9.0%	17.8%	2.7%	1011
Girardot	14.0%	51.8%	9.9%	21.6%	2.7%	708
Girón	13.4%	56.6%	10.5%	16.7%	2.8%	1067
Guainía	9.3%	33.9%	11.3%	38.1%	7.4%	443
Guaviare	19.7%	38.6%	9.9%	27.9%	3.8%	756
Huila	12.9%	52.8%	9.7%	22.8%	1.9%	6158
Ibagué	11.8%	61.7%	8.6%	15.9%	2.0%	3951
Ipiales	12.8%	62.1%	7.6%	15.8%	1.6%	985
Itagüí	14.1%	57.4%	8.7%	17.8%	2.0%	1416
Jamundí	13.9%	52.2%	10.2%	21.0%	2.7%	933
La Guajira	13.8%	45.4%	10.6%	25.3%	4.9%	3214

Continúa en la siguiente página



ETC/País	A	B	C	D	Omisión y multimarca	Nº estudiantes
Lorica	16.4%	45.5%	12.1%	22.7%	3.3%	1078
Magangué	16.0%	41.9%	13.5%	24.4%	4.2%	1203
Magdalena	13.8%	46.0%	10.8%	24.4%	5.0%	7253
Maicao	16.8%	42.5%	10.5%	27.1%	3.2%	1796
Malambo	10.1%	55.3%	9.3%	22.3%	2.9%	989
Manizales	12.8%	59.9%	7.7%	16.9%	2.7%	2287
Medellín	13.7%	55.5%	8.7%	18.9%	3.2%	14975
Meta	12.7%	50.1%	9.7%	24.4%	3.1%	4172
Montería	15.6%	50.0%	10.2%	22.2%	2.1%	3968
Mosquera	13.9%	60.1%	7.6%	15.3%	3.1%	839
Nariño	12.4%	57.9%	8.0%	18.6%	3.1%	7529
Neiva	12.7%	55.7%	8.4%	20.6%	2.6%	2771
Norte de Santander	11.6%	59.4%	8.0%	18.8%	2.2%	6053
Palmira	11.5%	60.3%	8.8%	16.7%	2.7%	2204
Pasto	11.5%	62.0%	8.6%	15.2%	2.6%	3214
Pereira	12.3%	58.3%	8.2%	17.7%	3.6%	3082
Piedecuesta	11.1%	61.7%	7.1%	18.9%	1.2%	1128
Pitalito	15.7%	52.4%	9.5%	21.1%	1.3%	1238
Popayán	13.2%	59.8%	7.6%	16.3%	3.1%	2065
Putumayo	13.2%	49.8%	10.2%	23.0%	3.8%	3015
Quibdó	14.6%	53.4%	7.3%	21.9%	2.8%	1228
Quindío	14.8%	50.4%	9.6%	21.0%	4.2%	1759
Riohacha	14.0%	49.0%	10.2%	22.7%	4.1%	2233
Rionegro	12.5%	62.0%	9.2%	14.4%	1.9%	826
Risaralda	14.3%	52.6%	8.6%	21.8%	2.7%	2150
Sabaneta	8.8%	62.4%	6.7%	15.2%	6.9%	375
Sahagún	13.1%	49.3%	12.2%	24.5%	0.9%	995
San Andrés	13.7%	47.9%	10.0%	25.3%	3.2%	380
Santa Marta	14.9%	51.0%	9.7%	20.8%	3.5%	4034
Santander	11.4%	60.1%	8.1%	18.3%	2.1%	6391
Sincelejo	14.9%	52.9%	9.3%	20.2%	2.7%	2280
Soacha	12.1%	63.0%	7.8%	14.9%	2.2%	3890
Sogamoso	11.2%	63.5%	8.5%	13.8%	3.0%	1104
Soledad	13.1%	60.6%	8.1%	16.4%	1.9%	4111
Sucre	14.6%	43.3%	11.8%	26.9%	3.5%	6217
Tolima	12.9%	52.9%	9.4%	21.8%	3.0%	7808
Tuluá	13.0%	57.7%	8.8%	18.0%	2.5%	1698
Tumaco	14.3%	40.7%	11.5%	26.8%	6.8%	2162
Tunja	9.5%	66.9%	7.8%	14.3%	1.5%	1245
Turbo	16.7%	35.0%	12.0%	30.4%	5.9%	1581

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Uribe	14.6%	37.1%	14.9%	28.3%	5.1%	1506
Valle del Cauca	13.5%	53.4%	9.4%	20.6%	3.1%	7120
Valledupar	12.6%	54.7%	7.4%	20.0%	5.3%	3871
Vaupés	18.3%	34.9%	8.3%	32.6%	6.0%	218
Vichada	10.4%	43.6%	12.5%	29.8%	3.8%	289
Villavicencio	12.1%	62.7%	6.9%	16.2%	2.2%	4134
Yopal	12.8%	56.2%	8.8%	19.5%	2.7%	1332
Zipaquirá	12.5%	65.3%	6.1%	14.7%	1.4%	931
Colombia	13.0%	55.3%	8.8%	19.7%	3.2%	370353

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.



